ISPT Pty Ltd
c/o
Aliro Management Pty Ltd

Data Gap Investigation

Prospect Logistics Estate
Pemulwuy, NSW

23 September 2020

58238/132732 (Rev 0)

JBS&G Australia Pty Ltd

www.jbsg.com.au

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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
AF/FA	Asbestos Fines/Fibrous Asbestos
AHD	Australian Height Datum
Aliro	Aliro Management Pty Ltd
ASS	Acid Sulfate Soils
AST	Aboveground Storage Tank
AQ	Asbestos Quantification
bgs	Below Ground Surface
BOM	Bureau of Meteorology
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
Btoc	Below Top of Casing
COPC	Contaminants of Potential Concern
Council	Cumberland Council
CSM	Conceptual Site Model
DGI	Data Gap Investigation
DLWC	Department of Land and Water Conservation
DP	Deposited Plan
DPI	Department of Primary Industry
DPIE	Department of Planning, Industry and the Environment
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
GPR	Ground Penetrating Radar
ha	Hectare
HBMS	Hazardous Building Material Survey
HDPE	High Density Polyethylene
IBC	Intermediate Bulk Container
IP	Interface Probe
ISPT	ISPT Pty Ltd
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
LOR	Limit of Reporting
LPI	Land and Property Information
NAPL	Non-Aqueous Phase Liquid
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NEMP	PFAS National Environmental Management Plan 2.0
NSW	New South Wales
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per and Polyfluoroalkyl Substances
PSI	Preliminary Site Investigation
RAP	Remedial Action Plan
RPD	Relative Percent Difference
SEPP	State Environmental Policy
SWLs	Standing Groundwater Levels
SSDA	State Significant Development Application
sVOC	Semi Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
uPVC	Unplasticised Polyvinyl Chloride
UST	Underground Storage Tank
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) has been engaged by ISPT Pty Ltd (ISPT, the client) care of Aliro Management Pty Ltd (Aliro) for the provision of environmental consultancy services associated with the Prospect Logistics Estate (the site) State Significant Development (SSD) project application. The proposed development comprises a 20.2-hectare (ha) parcel of land, the cadastral identifiers and approximate area are shown in **Table 1.1**. The site location, layout, cadastral boundaries and features are shown on **Figure 1**, **Figure 2a** and **2b,** respectively.

The site currently comprises two commercial/industrial properties (Austral Masonry and Boral House) historically utilised for manufacturing/light industrial and commercial uses (associated with the former Boral Brick facility and regional quarrying activities), two vacant land parcels including a former Cumberland Council depot/stockpile yard (Lot 63 Deposited Plan (DP)752051) and land containing a water detention pond. Lot 63 (former Cumberland Council depot/stockpile yard) has been subject to detailed site investigations, preparation of a remedial action plan (RAP) and remediation and validation for commercial/industrial land use to address identified soil contamination.

It is understood ISPT/Aliro have submitted a Concept Proposal to the NSW Department of Planning, Industry and Environment (DPIE) for the redevelopment of the site as a future commercial/industrial warehouse logistics estate (**Appendix A**). To address the key issues outlined in the Planning Secretary's Environmental Assessment Requirements (SEARs[1]) and to satisfy the requirements of *State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55), a Phase 1 and Phase 2 Environmental Site Assessment (ESA) of potential site-wide contamination, consistent with a detailed site investigation (DSI), was prepared by JBS&G (2020a[2]) to demonstrate the site is suitable or can be made suitable for its proposed uses.

A detailed review of previous investigations presented in JBS&G (2020a) identified a range of data gaps within a portion of the site, herein referred to as the "assessment area" (refer to **Figure 1** and **Figure 2a**), based on the identified areas of environmental concern (AECs) and contaminants of potential concern (COPC). JBS&G (2020a) recommended a Data Gap Investigation (DGI) be undertaken to address identified potential contamination within the assessment area. The assessment area excludes portions of the site considered to have been adequately assessed (Lot 107) and Lot 63, which has been subject to remediation and validation.

The DGI included implementation of a targeted program of soil/sediment, soil vapour, surface water and groundwater assessment. The sampling plan included the advancement of 122 soil sampling locations, 10 sediment sampling locations, installation and sampling of seven groundwater monitoring wells, and installation and screening of 22 soil vapour locations. The investigation was considered to have adequately addressed identified data gaps for the assessment area.

Based on the DGI outlined herein and with consideration to the site data set and identified contamination as outlined in JBS&G (2020a), the following key findings for the site were presented:

- No exceedances of the adopted health criteria for chemical constituents were reported for any soil, soil vapour, sediment, surface water or groundwater sample location;
- Isolated heavy metal, total recoverable hydrocarbon (TRH) and polycyclic aromatic hydrocarbon (PAH) concentrations in soil and sediment reported in exceedance of the adopted ecological criteria were considered to be generally attributed to background

[1] *Planning Secretary's Environment Assessment Requirements. Prospect Logistics Estate – Clunies Ross Street, Prospect.* SSD-10399 issued 16 December 2019 for Aliro Management Pty Ltd (SEARs)

[2] *Phase 1 and Phase 2 Environmental Site Assessment, Prospect Logistics Estate*. JBS&G Australia Pty Ltd dated 3 June 2020 (JBS&G 2020a)

concentrations anticipated in urban settings and/or reflective of the underlying geology and with consideration to the proposed redevelopment, considered not to pose an unacceptable risk to ecological receptors at the site;

- Reported concentrations of heavy metals in surface water/groundwater exceeding the adopted ecological criteria were considered reflective of urban background concentrations and/or reflective of the underlying geology and considered not to represent an unacceptable risk at the site;
- Asbestos impacted fill materials were reported at several locations at the site. Based on the DGI outlined herein and known impacts presented by JBS&G (2020a), the following areas (as shown on **Figure 7A**) were identified to contain asbestos impacts considered to pose an unacceptable risk and require remediation/management:
    - Approximately 350 m^3 of fill identified to contain bonded asbestos containing material (ACM) and anthropogenic waste adjacent to Lot 63;
    - Approximately 15 m^3 of asbestos fines/fibrous asbestos (AF/FA) impacted fill at location AQ13 adjacent to Lot 63;
    - Approximately 30 m^3 of bonded ACM and anthropogenic waste in fill underlying an on-site high voltage power pole present on Lot 63;
    - Between approximately 4,000 m^3 and 8,000 m^3 of bonded ACM impacted fill material and anthropogenic waste in the north west of the site;
    - Approximately 150 m^3 of AF/FA impacted fill material at sample location JB95 (to a depth of 2.0 m below ground surface (bgs)) in the north west of the site;
    - Approximately 5 m^3 of AF/FA impacted surface soils at one location (PT2-6) and approximately 10 m^3 of bonded ACM impacted surface soils at one location (BH8) surrounding Plant 2 in the central portion of the site. Potential remains for asbestos impacts in accumulated sediment within drainage pits/infrastructure (if present) in close vicinity of Plant 2; and
    - The potential remains for redundant service infrastructure which may comprise ACM to be present in a service alignment identified in the south west of the site (Lot 107, as outlined in JBS&G (2020a).
- Targeted soil vapour assessment did not identify the presence of vapour concentrations underlying the site considered to pose a potentially unacceptable vapour intrusion risk;
- Odorous soils were identified at four locations (JB31, JB63, JB93 and JB105) to an approximate maximum depth of 2.0 m bgs. Strong to moderate hydrocarbon/chemical odoours in soil at JB63 and JB93 are considered to pose an aesthetic issue and will require remediation and/or management;
- TRH concentrations at one sample location (JB63) exceeding the adopted management limit was considered not to pose an unacceptable risk to groundwater, noting soils at this location will require remediation/management to address odours;
- General site wide fill materials have been identified to contain brick to varied degrees which may pose an aesthetic issue. As part of redevelopment works, consideration should be given to the end-use (placement) of fill material co-mingled with brick (in accordance with aesthetic considerations presented in NEPC (2013));
- Gross anthropogenic waste materials were identified in fill material at isolated locations (generally co-mingled with ACM impacted fill) at the site and were considered to pose an unacceptable aesthetic issue requiring remediation and/or management; and

- Former underground petroleum storage systems (UPSS) and other petroleum storage (current/former) have been identified at the site which will require decommissioning[3] and removal, and management of any residual potentially impacted soils (which may be encountered adjacent to infrastructure) relevant to the proposed land use in (NEPC 2013);

The DGI outlined herein and previous detailed investigation (JBS&G 2020a) are considered to have generally satisfied the requirements of the SEARS. Based on the findings and limitations of this and previous investigations, it is considered the site can be made suitable for the intended commercial/industrial use subject to the preparation of a RAP to address the identified impacts without ongoing management.

[3] In accordance with Guidelines for Implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008, Department of Environment, Climate Change and Water NSW, September 2009 (DECC 2009).

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) has been engaged by ISPT Pty Ltd (ISPT, the client) care of Aliro Management Pty Ltd (Aliro) for the provision of environmental consultancy services associated with the Prospect Logistics Estate (the site) State Significant Development (SSD) project application. The proposed development comprises a 20.2 hectare (ha) parcel of land as shown on **Figure 1**.

The site currently comprises two commercial/industrial properties (Austral Masonry and Boral House) historically utilised for manufacturing/light industrial and commercial uses (associated with the former Boral Brick facility and regional quarrying activities), two vacant land parcels including a former Cumberland Council depot/stockpile yard (Lot 63 Deposited Plan (DP)752051) and land containing a water detention pond. Lot 63 (former Cumberland Council depot/stockpile yard) has been subject to detailed site investigations, preparation of a remedial action plan (RAP) and remediation and validation for commercial/industrial land use to address identified soil contamination.

It is understood ISPT/Aliro have submitted a Concept Proposal to the NSW Department of Planning, Industry and Environment (DPIE) for the redevelopment of the site as a future commercial/industrial warehouse logistics estate (**Appendix A**). To address the key issues outlined in the Planning Secretary's Environmental Assessment Requirements (SEARs[4]) and to satisfy the requirements of *State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55), a Phase 1 and Phase 2 Environmental Site Assessment (ESA) of potential site-wide contamination, consistent with a detailed site investigation (DSI), was prepared by JBS&G (2020a[5]) to demonstrate the site is suitable or can be made suitable for its proposed uses.

A detailed review of previous investigations presented in JBS&G (2020a) identified a range of data gaps within a portion of the site, herein referred to as the "assessment area", based on the identified areas of environmental concern (AECs) and contaminants of potential concern (COPC). JBS&G (2020a) recommended a Data Gap Investigation (DGI) be undertaken to address identified potential contamination within the assessment area.

The cadastral identifiers and approximate areas for the site and current assessment area are shown in **Table 1.1**, and the location, layout, cadastral boundaries and features are shown on **Figure 1** and **Figures 2a** and **2b,** respectively.

Table 1.1: Site and Assessment Area Address, Cadastre and Area

Address and Identifier	Cadastre	Area (ha)
Assessment Area		
44 Clunies Ross Street, Pemulwuy, NSW, 2145	Lot 10 DP 1022044	12.58
Clunies Ross Street, Pemulwuy, NSW, 2145	Lot 216 DP 1030744	0.28
Clunies Ross Street, Pemulwuy NSW, 2145	Lot 601 DP 1047403	0.03
Clunies Ross Street, Pemulwuy NSW, 2145	Lot 602 DP 1047403	1.42
Broader Prospect Logistics Estate		
615A Great Western Highway, Pemulwuy, NSW 2145	Lot 63 DP 752051	0.81
Prospect Hill heritage reserve - Clunies Ross Street, Pemulwuy, NSW, 2145	Part Lot 107 DP 1028208	0.97
Boral House (excluding the Prospect Hill Heritage Reserve) – Clunies Ross Street, Pemulwuy, NSW, 2145	Part Lot 107 DP 1028208	4.1
	Approximate Site Area	**20.19**

[4] Planning Secretary's Environment Assessment Requirements. *Prospect Logistics Estate – Clunies Ross Street, Prospect.* SSD-10399 issued 16 December 2019 for Aliro Management Pty Ltd (SEARs)

[5] *Phase 1 and Phase 2 Environmental Site Assessment, Prospect Logistics Estate*. JBS&G Australia Pty Ltd dated 3 June 2020 (JBS&G 2020a)

To support the requirements for site characterisation and in turn preparation of a RAP, supplementary data was required to be obtained to address identified data gaps within assessment area.

This DGI report, which pertains the assessment area, has been developed in accordance with guidelines made or approved by the New South Wales (NSW) Environment Protection Authority (EPA) and relevant Australian Standards.

1.2 Objective

The objectives of the DGI was to address the identified data gaps and sufficiently characterise the assessment area to enable a RAP to be prepared that, when successfully implemented, will ensure the assessment area and site is suitable for the intended land use.

1.3 Scope of Work

The following scope of works was undertaken:

- A review of previous investigations as made available to JBS&G as summarised in **Section 4;**
- Identification of data gaps based on review of previous investigations and identified AECs and COPCs, and development of a detailed conceptual site model (CSM) for the assessment area;
- Comprehensive soil sampling program from boreholes and test pits across the assessment area, including targeted locations;
- Targeted sediment sampling from detention/settling ponds across the assessment area;
- Analysis of selected soil and sediment samples at a National Association of Testing Authority (NATA) accredited laboratory for a range of COPC including, but not limited to, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX) compounds, polycyclic aromatic hydrocarbons (PAHs), heavy metals including aluminium, manganese, iron, cyanide (free), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), nitrate/nitrite, organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), per and polyfluoroalkyl substances (PFAS) and asbestos;
- Additional analysis by toxicity characteristic leaching procedure (TCLP) for heavy metals and PAHs to allow for preliminary waste characterisation in accordance with EPA (2014[6]) Waste Classification Guidelines;
- Assess potential contaminant leaching from soils via a limited program of Australian standard leaching procedure (ASLP) analysis (for heavy metals/PAHs) to assist in the remedial planning;
- Assessment of soil physiochemical parameters (potential of hydrogen (pH) and cation exchange capacity (CEC)) to enable appropriate consideration of potential ecological risk;
- Collection of surface water samples from a series of water detention/settling ponds across the assessment area;
- Conversion of selected boreholes into groundwater monitoring wells targeting AECs;
- Gauging, purging and sampling of newly installed groundwater monitoring wells;
- Analysis of groundwater and surface water samples at a laboratory NATA accredited for a range of COPC including, but not limited to, heavy metals, TRH, VOCs, PAHs (low level), PFAS,

[6] *Waste Classification Guidelines: Part 1 – Classifying Waste.* NSW EPA 2014 (EPA 2014)

ammonia, nitrate/nitrate, nitrogens (speciated), total suspended solids (TSS), electrical conductivity (EC), pH and alkalinity;

- Advancement of targeted sub-slab soil vapor probes in proximity to current/historical potentially volatile soil and/or groundwater contaminating activities;
- Analysis of soil vapour samples at a NATA accredited laboratory for a range of COPC including TRH, BTEX compounds and VOCs;
- Assessment of site observational and laboratory analysis data against EPA made or endorsed assessment criteria applicable to the intended commercial/industrial land use; and
- Preparation of a DGI Report in general accordance with relevant EPA guidelines.

2. Site Condition & Surrounding Environment

The following sections provide a summary of site condition and surrounding environmental setting pertaining to the site (for which the assessment area forms part of).

2.1 Site Identification

The location of the site and surrounds is shown in **Figure 1.** The current layout is shown in **Figure 2a** and the proposed site development layout is shown in **Appendix A**. Site/assessment area details are summarised in **Table 2.1** and discussed in detail in the following section.

Table 2.1: Summary of Site/Assessment Area Details

Site and Assessment Area Legal Identifier (as shown on **Figure 2a**)	Assessment Area: Lot 10 DP 1022044 Lot 216 DP 1030744 Lot 601 DP 1047403 Lot 602 DP 1047403 Broader Prospect Logistics Estate Lot 63 DP 752051 Lot 107 DP 1028208
Site and Assessment Area Address	Assessment Area: Lot 10 DP 1022044 - 44 Clunies Ross Street, Pemulwuy, NSW, 2145 Lot 216 DP 1030744 - Clunies Ross Street, Pemulwuy, NSW, 2145 Lot 601 DP 1047403 - Clunies Ross Street, Pemulwuy NSW, 2145 Lot 602 DP 1047403 - Clunies Ross Street, Pemulwuy NSW, 2145 Broader Prospect Logistics Estate: Lot 107 DP 1028208 - Clunies Ross Street, Pemulwuy, NSW, 2145 Lot 63 DP 752051 - 615A Great Western Highway, Pemulwuy, NSW 2145
Site Area	Prospect Logistics Estate: Approximately 20.19 ha Assessment Area: Approximately 14.31 ha
Approximate Relative Level (RL) m Australian Height Datum (AHD)	106 m AHD – south eastern site extent 52 m AHD – north eastern site extent
Local Government Authority	Cumberland City Council Blacktown City Council
Site Geographic Coordinates (MGA 56)	Refer to **Figure 2a**
Current Zoning	Zone IN1 General Industrial
Proposed Zoning	Zone IN1 General Industrial
Previous Land Uses	Agricultural and commercial/industrial (offices, quarrying, manufacturing)
Current Land Uses	Vacant land and commercial/industrial (offices, masonry)
Proposed Land Uses	Commercial/industrial Precinct with warehousing, concrete hardstand carpark areas, drives with minor landscaped areas.

2.2 Site Condition

The site, for which the assessment area is part, currently comprises two commercial/industrial properties (Austral Masonry and Boral House) and two vacant land parcels including a former Cumberland Council depot/stockpile yard currently being remediated for commercial/industrial land use and a lot comprising a water detention basin. A summary of key observations at the site has been presented in JBS&G (2020a). The following provides a detailed summary of key observations made for the assessment area (**Table 1.1**) on 29 August 2020 by one of JBS&Gs trained and experienced environmental consultants. Key features are shown on **Figure 2b**.

The assessment area was an operational manufacturing site occupied by Austral Masonry at the time of inspection. The property was noted to contain two large warehouse buildings (Plant 1 and Plant 2, **Figure 2b**) surrounded by hardstand pavement, material storage yards, asphaltic car parks and concrete/asphaltic loading docks/driveways. An administration building was situated in the central north east, with a smaller (former brickworks office) situated in the central east. Several settling ponds (both earthen and concrete lined) and an overland water treatment wetland (riparian

zone) were present in the north and north west of the site. The southern portion of the assessment area comprised a vacant gravelled driveway.

Hydrocarbon (petroleum/hydraulic oil) and chemical storage areas were observed (**Figure 2b**) at various locations across the assessment area. A single operational diesel AST was observed in the south east, with localised staining atop adjacent hardstand pavement. Several hydraulic oil stores/pump houses were observed, with localised surface staining noted. A disused vent pipe was observed, affixed to the central brickworks office, associated with a formerly identified diesel underground storage tank (UST).

Intermediate bulk containers (IBCs) within/surrounding Plant 1 and Plant 2 were noted to contain various hardeners/release agents associated with masonry production activities. Review of identified chemicals indicated they likely pose a low risk of potential contamination (biodegradable). Colourant fill points were observed adjacent to the south west of Plant 2 with a series of above ground storage tanks (ASTs) associated with the 'colour farm' external to the south west of Plant 2. A series of oxide ASTs were noted to the south of Plant 1.

Waste and/or raw material storage was observed across the assessment area in bunded concrete storage bays, with additional bulk material storage noted in the western portion of Plant 2 and surrounding a shed in the southern portion of the assessment area. Material storage included manufacturing by-products (slag/ash) and raw materials (concrete/fly ash/sands). Additionally, significant volumes of waste/disused plant and equipment was observed within the north western portion of the site. Existing structures (Plant 2) were noted to contain hazardous building materials (asbestos).

The assessment area was notably tiered and comprised expansive levelled (filled) areas to facilitate the construction of Plant 1, Plant 2 and peripheral material storage yards/driveways. Portions of the assessment area had been subject to cut activities (excavation into the existing hillslope) as part of site level establishment.

2.3 Proposed Development

Review of architectural design plans (**Appendix A**) indicates that the site is proposed to be developed to accommodate seven large warehouses with attached office space and surrounding paved areas to accommodate truck and car parking with minor landscaped garden beds covering approximately less than 20 % of the site developable area.

2.4 Surrounding Land Uses

The current land use of adjacent properties or properties across adjacent roads is summarised below.

- North – The site is bound to the north by a vacant vegetated parcel of land which is dissected by Girraween Creek;
- South – The site is bound to the south by vacant land then commercial/industrial allotments (large open plan warehouses);
- East – The southern portion of the site is bound to the east by an earthen road and a vacant parcel of land associated with Prospect Hill. The remainder of the site is bound to the east by Clunies Ross Street across which there are low density residential allotments and commercial/industrial warehouses; and
- West – The site is primarily bound to the west by commercial/industrial allotments (large open plan warehouses).

The closest environmental receptor is the highly disturbed freshwater Girraween Creek, located approximately 15 m north west of the site, south of The Great Western Highway.

2.5 Environmental Summary

The environmental setting of the site has been detailed in previous investigations JBS&G (2020a). A summary has been provided in **Table 2.2** for the site to assist in the identification of potential data gaps (**Section 5**) and inform the CSM for the assessment area (**Section 6**).

Table 2.2: Summary of Environmental Characteristics at the Site

Environmental Aspect	Characteristics
Topography	The site is located within a gently undulating regional topography. The south of the site is situated atop a regional high point (Prospect Hill, **Figure 2b**). Site levels were noted to fall slightly to the south and west of the crest, with the majority of the site falling towards the north/northwest, towards Girraween Creek. Ground levels of approximately 106 m AHD are present atop Prospect Hill, falling to 52 m AHD along the northern site boundary, in close proximity to Girraween Creek. As discussed in **Section 2.2** the site inspection indicated that portions of the site had been subject to cut and fill activities. Prospect Hill toward the north and east of Boral House (Lot 107 DP 1028208) had been subject to cutting activities to facilitate the development of site buildings and hardstand pavements. Cut/fill activities were also observed to facilitate the levelled construction of the built form (particularly surrounding Plant 1 and Plant 2 and associated material storage yards within Lot 10 DP 1022044). It is considered that as part of historic redevelopment activities there is the potential for substantial quantities of fill to have been imported to the site to establish site levels or as may have been associated with regional historic quarrying activities. The assessment area was notably tiered (subject to cut and fill) with expansive levelled areas surrounding constructed warehouses. The assessment area notably fell from the south to the north and north west.
Geology / Soil	The site is present within the following natural geological and soil landscapes: **Geology**: Northern portion of site is situated on Bringelly Shale – comprising shale, carbonaceous claystone, laminate and fine to medium grained lithic sandstone, rare coal tuff of the Wianamatta Group; the southern portion of site lies on Jurassic Prospect Picrite – comprising picrite, dolerite and minor basalt. Previous investigations have identified the majority of the assessment area to be underlain by Bringelly Shale, with igneous bedrock noted within the southern portion. **Landscape**: Topography varies from level plains to undulating terrain, and has been disturbed by human activity to a depth of at least 100 cm. Most of these areas have been levelled to slopes of <5 %. **Soils**: Northern portion of site is situated on Blacktown soil horizon – comprising red and brown podzols on crests, yellow podzols on lower slopes and drainage lines; the southern portion of the site contains Disturbed Terrain - the original soil has been removed, greatly disturbed or buried. Landfill may include soil, rock, building and waste material. The reported soil characteristics generally align with observations made at the site and assessment area. **Limitations**: Blacktown – moderately reactive highly plastic subsoil, localised seasonal waterlogging and water erosion hazard, localised surface movement potential. Disturbed Terrain – dependent on the nature of fill material – often includes subsidence resulting in a mass, movement hazard, soil impermeability leading to poor drainage, and low fertility. Previous assessment activities as discussed in **Section 4** have identified fill material to variable depths underlying the site/assessment area. Fill materials have been found to be heterogeneous generally comprising a combination of gravelly clay and to a lesser extent gravelly sand. Generally, fill comprised a combination of reworked natural material (shale/igneous rock) associated with former brick works/quarrying activities with minor anthropogenic inclusions including bricks, metal, sandstone, in addition to minor ash and slag inclusions reported within the fill soil profile. Natural soils have been encountered under fill materials. Natural soils were noted to generally comprise residual clay/silt horizons overlying shale (northern portion) and

Environmental Aspect	Characteristics
	igneous bedrocks (southern portion of the site). Lenses of sand/sandy clay were identified in the northern portion of the site (toward Girraween Creek/on-site retention ponds), albeit to a limited extent.
Acid Sulfate Soils (ASS)	The site including the current assessment area is located within an area of *'no known occurrence of Acid Sulfate Soils*'. With consideration to the site setting and geological and soil characteristics of the site, management of development activities is not required to address the potential for impact on ASS.
Hydrology	Girraween Creek, a tributary of Toongabbie Creek and in turn the Parramatta River, is located approximately 15 m north west of the north western site boundary. The Girraween Creek sub-catchment covers an area of 936 ha extending from the eastern edge of Prospect Reservoir through Fox Hills Golf Course, Girraween Park and a linear recreation reserve in Toongabbie until its confluence with Toongabbie Creek and in turn the Parramatta River. Girraween Creek has been identified as a highly disturbed urban drainage channel which has been significantly altered (evidenced by historic aerial photographs which indicate the creek alignment downgradient of the site has been re-directed/altered to facilitate construction of a regional flood detention basin (**Section 3**)). Girraween Creek is considered to likely receive road and stormwater runoff from the surrounding land uses which comprise a combination of commercial/industrial, agricultural and urban/residential. As discussed in **Section 2.2**, the site including the assessment area comprises a combination of unpaved (aggregate covered) storage yards/vegetated surfaces, sealed (buildings/hardstand pavement) surfaces and contains a series of retention/settling ponds (within the north western portion of site). As such, precipitation falling onto the site in unsealed areas is expected to infiltrate surface soils at a rate reflective of the permeability of the underlying site soils (refer to geology above) and be directed toward engineered drainage channels, then on-site retention/settling ponds and subsequently discharge to Girraween Creek north west of the site. In sealed areas of the site surface waters are anticipated to be redirected into the site stormwater infrastructure and directed to the municipal stormwater network and/or stormwater drainage channels and subsequently to retention/settling ponds in the north west of the site. In periods of heavy or prolonged rainfall, following surface soil saturation, excess water movement is expected to follow the topographic gradient and be collected by downgradient neighbouring stormwater drainage networks and transferred to the regional stormwater network and/or discharged to Girraween Creek.
Hydrogeology	The majority of the site is underlain by disturbed terrain overlying a dolerite/picrite formation and Bringelly Shale, as such there is a potential for perched water at the fill/natural and soil/rock interface. A deeper confined groundwater system is expected to be resident in the fractures/porous lenses within the underlying igneous bedrock/Bringelly Shale. A search of registered bore information obtained from the Water NSW online database identified 10 groundwater bores to be located within a 1 km radius of the site. Standing water levels were noted to be greater than 13 m bgs. Three groundwater monitoring wells were installed to a depth of 8 m bgs within Lot 107 DP 1028208 (MW01 to MW03) as part of JBS&G (2019a[7]). Groundwater was not encountered at these locations up to 8 m bgs. DLA (2017[8]) reported groundwater in one well installed to a depth of 6 m bgs on Lot 10 DP 1022044, the depth of standing water levels were not reported. Notwithstanding, groundwater was sampled from this well with DLA reporting the presence of shallower groundwater toward the north of the site

[7] *Preliminary Contaminated Land Assessment – Lot 107 DP 1028208, Clunies Ross Street, Pemulwuy, NSW (Rev 1)*. JBS&G Australia Pty Ltd dated 17 June 2019 (JBS&G 2019a)

[8] *Combined Phase 1 and Phase 2 Environmental Assessment, Prospect Masonry, 44 Clunies Ross Street, Prospect NSW 2148.* DLA Environmental Services Pty Ltd, dated 2 March 2017, Ref: DL4032_S006335. DLA (2017)

Environmental Aspect	Characteristics
	(< 6 m bgs). Coffey (2013[9]) reported groundwater seepage at 3.3 m bgs in other locations, indicating the potential for perched groundwater at the fill/natural interface. Based on the reported geology, topography and site observations, the permanent groundwater table is likely to be variable across the site and is expected to be encountered at depth (greater than 13 m bgs) within the southern portion of the site and located within zones of higher permeability associated with bedrock faults, joints and weathered zones. Groundwater is anticipated to be encountered at shallower depths toward the north of the site at variable depths (within perched fill layers and/or at the natural/bedrock interface) and is expected to flow north-northwest towards Girraween Creek.
Salinity	The site was noted to lie within an area of moderate to high salinity potential. Saline affected soils may have implications in the design/construction of future buildings. Saline affected soils are likely to be present in low lying areas, noting the site is located adjacent to a regional high point. JBS&G note previous investigations did not identify salt scarring or evidence of saline soils at the site.
Meteorology	Average climatic data obtained from the nearest Bureau of Meteorology monitoring location (Prospect Reservoir) indicated the sites meteorological setting is characterised by average minimum temperatures which vary from 6.1 ^{o}C in July to 17.8 ^{o}C in February; average maximum temperatures which vary from 16.9 ^{o}C in July to 28.6 ^{o}C in January; average annual rainfall of approximately 873.7 mm with rainfall greater than 1 mm occurring on an average of 83.9 days per year; monthly rainfall varies from 46.5 mm in September to 98.8 mm in February.

[9] *Due Diligence Environmental Site Assessment – Clunies Ross Street, Prospect, NSW.* Coffey Environments Pty Ltd dated 2 May 2013 reference ENAURHOD04463AA (Coffey 2013).

3. Summary Site History

A detailed assessment of the site history has been presented in previous investigations, JBS&G (2020a). A summary of this information is presented below to assist in the identification of potential data gaps (**Section 5**) and inform the CSM for the assessment area (**Section 6**).

3.1 Aerial Photographs and Historic Land Title Records

Review of historic aerial photographs indicated the site appeared to have been vacant pastoral/agricultural land and subject to minor quarrying activities prior to being utilised for bulk material storage associated with regional quarrying activities and manufacturing (Boral Bricks) and was subject to ground disturbance (stockpiling/filling) from the 1960s to the late 1990s. The site appeared to have been subject to cut/fill activities associated with redevelopment and construction of existing buildings. Girraween Creek to the north of the site has undergone significant alterations/disturbance associated with the construction of a regional flood retention basin (to the immediate north of the site). Manufacturing has been ongoing in the northern portion of the site (Austral Masonry) and the southern portion has been utilised for a combination of commercial land use (Boral/Greystanes House) with adjacent vacant land utilised as a carpark (minor occupancy).

The historical land title records indicate that the majority of the site has been utilised for agricultural purposes (owned by dairy farmers) and small-scale quarrying (blue metal) prior to its use for regional quarrying/manufacturing activities. Following cessation of quarrying activities, the land title records indicated portions of the site were utilised for commercial purposes (Boral Brick head offices) and masonry manufacturing activities (occupation by Austral Masonry). It is understood ISPT are the current owner of Lot 10 DP 1022044 and Lot 107 DP 1028208.

Historical title records for Lot 63 DP 752051 indicate that the lot was Crown Land prior to 1963 and the proprietor of the site was the Council of the Municipality of Holroyd from 1963. An amalgamation of the Municipality of Holroyd, now Cumberland Council occurred in 2016 and it is understood Cumberland Council has been the owner of the property and is currently in the process of acquisition by ISPT.

3.2 EPA Records

NSW EPA's public records maintained under the *Protection of the Environment Operations Act 1997* (POEO Act) identified that, for the site, there were no prevention, clean up or prohibition notices and no transfer, variation, suspension, surrender or revocation of an environmental protection licence.

The search indicated Austral Masonry (NSW) Pty Ltd previously owned by Boral Recycling Pty Ltd holds an Environmental Protection Licence (EPL 4664) for concrete works. JBS&G note manufacturing activities conducted under this licence are generally low risk and are not considered to represent a significant potential for contamination.

Records identified that there have been no notices issued under the *Contaminated Land Management Act 1997* (CLM Act) for the site and immediate surrounds. The site has not been notified to the EPA under section 60 of the CLM Act with regards to contamination. No nearby properties were identified that may represent a contamination migration risk to the site.

The site, nor sites in the Pemulwuy, Prospect or Greystanes area were included in the EPA PFAS investigation program.

3.3 Australian and NSW Heritage Register

Prospect Hill, which forms part of the site's south eastern portion, outside the current assessment area, is listed as a Historic Landmark by the NSW OEH. The search indicates Prospect Hill has state significance due to a combination of its unique landscape feature as Sydney's largest body of igneous

rock and association with historical records. With the exception of a large body of igneous rock (Prospect Hill), a search of the Australian Heritage Trust database and the NSW Heritage Inventory did not reveal any heritage listed items at the site or on immediately adjoining properties.

3.4 Council Records

Planning Certificates

Planning Certificates issued under Section 10.7 (2 & 5) of the *Environmental Planning and Assessment Act 1979* (EP&A Act)) indicated the site is zoned IN1 (General Industrial) and is subject to the Holroyd Development Control Plan (DCP, 2013) and is part of the Western Sydney Employment Area (2009) SEPP. The records indicate the site is not affected by any planning instrument under the DCP (2013) and no matters under s59(2) of the CLM Act apply to the site. Records specific to Lot 63 DP 752051 indicated that this portion of the site has been used for the dumping of waste and fill and that the site is subject to potential salinity issues.

Council Letters

A copy of a letter of correspondence from then Holroyd City Council (dated 6 June 2008), provided in DP (2018[10]), indicated that a historic letter issued to Boral Bricks, dated 20 September 1995 specified that there was the use of Council's land (Lot 63 DP 752051) for the "dumping of waste and fill" material. The letter indicated the northern portion of the lot contained stockpiles of "waste brick, rubbish and aggregate". This is consistent with observations made by Woodward-Clyde (2000[11])). The letter indicated southern portion of the Lot 63 comprised a relatively flat area of soft soils with isolated stockpiles of timber palates and waste material. JBS&G note this property has undergone remediation to remove identified asbestos, heavy metal and aesthetic issues such that the land is suitable for ongoing commercial/industrial land use (unencumbered by management). Lot 63 is outside the current assessment area.

A copy of letter dated 9 November 1989 outlining discussions between Boral Quarries and the then Water Resource Commission (Blacktown City Council) regarding the construction of a flood retention basin associated with Girraween Creek catchment was provided to JBS&G for review. The letter provided design plans for a retention basin to the north of the site (beyond the site boundary), with required battering/filling proposed to extend to within the site/assessment area (Boral Quarry). Review of the letter indicated that as part of the construction of the flood retention basin, Boral would accept 10,000m^3 of fill material to batter the basin from 30 m within the site boundary, to above the 55.2 m flood levels. The discussion indicated site levels would be filled westward approximately 300 m. Review of aerial photographs indicated the proposed design and construction of the flood retention basin likely occurred, as generally outlined.

3.5 SafeWork NSW Dangerous Goods Records

A search of the Storage of Hazardous Chemicals database from SafeWork NSW for Lot 10 DP 1022044 indicated that dangerous goods licences have formerly been held within Lot 10 DP 1022044 including:

- Liquified Petroleum Gas (LPG);
- Dissolved acetylene;
- Compressed oxygen;
- Argon shield universal; and

[10] *Report on Due Diligence Contamination Investigation - Proposed Commercial Development 615A Great Western Highway, Pemulwuy*. Douglas Partners Pty Ltd dated 7 December 2018, DP (2018);

[11] *Phase 1 and Phase 2 Environmental Site Assessment – Boral Block and Paving Facility, Greystanes, NSW.* Woodward-Clyde Pty Limited (Woodward-Clyde 2000)

- Compressed argon.

Woodward-Clyde (2000) reported the presence of a UST in the central east of the site, adjacent to the former brickworks office (**Figure 2b**). The UST was reported to provide fuel to adjacent kilns (and potentially fuel for truck fuelling) and was subsequently decommissioned (filled with water) in 1983. Relevant records/details as to decommissioning of the UST were not provided. Anecdotal evidence and observations made during the detailed inspection (**Section 2.2**) indicates several diesel ASTs were present within the central portion of the site (**Figure 2b**).

In addition to the above, the detailed site inspection indicated a series of oxide tanks and a 2,500 L diesel AST were present on Lot 107 DP 1028208. The diesel AST were noted to be relatively new, with evidence of minor surficial spills on adjacent hardstand pavement.

3.6 Integrity Assessment

Based on the range of sources and the consistency of the historical information as provided in **Section 3**, it is considered that the historical assessments undertaken at the site, outlined in **Section 4** provide an acceptable level of accuracy with respect to identifying data gaps associated with potentially contaminating activities historically occurring at the site.

4. Previous Investigations

The following sections provide a summary of the information and site characterisation data presented within assessment reports prepared by JBS&G and by others which have been made available for review by JBS&G. These reports include both historical and information relating to investigations conducted at that time for the site (for which the assessment area forms part of).

Comments in relation to COPC are provided in the following text in relation to assessment criteria adopted by the author at the time of report preparation. This comprises the range of health investigation levels presented in NEPC (1999[12]) and EPA (1994[13]) for investigation results generally up to and including the end of 2012, and later guidelines provided by ANZECC (2000[14]) for groundwater thresholds and NEPC (2013[15]) for results from 2012.

Exceedances of currently adopted assessment criteria at the site are shown in accompanying summary results tables (**Appendix B**) and **Figure 7A** to **Figure 7C**. This is considered appropriate to assess the nature and distribution of contaminants outlined herein and identify any contamination issues/data gaps requiring further consideration in relation to proposed development of the site.

4.1 Lot 10 DP 1022044 – Austral Masonry

4.1.1 Phase 1 and Phase 2 Environmental Site Assessment – Woodward-Clyde (2000)

The following is a summary of information presented in an excerpt of Woodward-Clyde (2000) (as provided in Coffey (2013)). Detailed analytical results were not cited by JBS&G. As such the information has been summarised to provide broad site background information and supplement more recent environmental data at the site. A detailed map of the site features and AECs as identified and prepared by Woodward-Clyde (2000) is provided in **Appendix D** and as relevant on **Figure 2b**. JBS&G note there are discrepancies between site features as described in the report and that shown on the provided site diagram (**Appendix D**) (notable transcript errors regarding geographic reference points and locations) which have been resolved as part of the summary below.

Woodward-Clyde (2000) conducted a Phase 1 and Phase 2 ESA for the Boral Block and Paving Facility (now Austral Masonry). As part of the site history review the following was noted based on site observations and anecdotal evidence (discussions with site personnel at the time):

- One disused 10,000 L petrol and/or diesel UST (installed in 1962) was identified beneath brick pavers near the brickworks office (understood to have been drained and water filled in 1983). A bunded heavy fuel oil tank farm was noted to have been present at the site (removed prior to 1984) comprising 4 x 45,000 L ASTs in the south-eastern corner of the former brick works factory building (kiln firing);
- Various operating facilities were present on the site including one fuel oil AST outside the southern wall of the besser block factory, two in-ground (concrete) oxide effluent tanks connected to the settling pits, minor hydraulic oil spills, two above ground LPG tanks (7,500 L) near the former tank farm, 8 steel ASTs - storing oxides, a first flush pit and disused machinery area within the north western portion of the property;
- Asbestos building materials were noted in structures, including fuel lines to kilns. An area of buried asbestos in plastic bags (lagging from a portion of the kiln fuel oil lines) was reported

[12] National Environment Protection (Assessment of Site Contamination) Measure, 1999. National Environment Protection Council, 1999 (NEPC 1999)

[13] Contaminated Sites: Guidelines for Assessing Service Station Sites. NSW EPA December 1994 (EPA 1994)

[14] *Australian and New Zealand Guidelines for Fresh and Marine Waste Quality, Volume 1.* Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand, October 2000 (ANZECC 2000)

[15] *National Environment Protection (Assessment of Site Contamination) Measure, 1999 Amendment No. 1*. National Environment Protection Council 2013 (NEPC 2013)

to a depth of 3 m in an area fringing a disused shed to the west[16] of the former factory building in 1978 (**Figure 2b**). The buried asbestos was noted to have been backfilled with "waste material", the nature of which was unable to be ascertained. In addition, the following is noted:

  - Buried asbestos was subsequently believed to have been disposed off-site in 1996 based on an internal audit report prepared in 1999 by Boral (not cited). Based on anecdotal evidence, an asbestos survey was carried out at the site. Documentation was not provided by Woodward-Clyde (2000); and
  - JBS&G consider the reported location of the buried waste (**Appendix D**) to be incorrectly inferred around the existing shed to the south of the warehouse and was more likely present in vicinity of a former shed identified to the south west of the current shed (as evidenced in the 1991 aerial photograph) which was subsequently demolished.

- Two former oil (drum) stores were identified to the northern end of the former factory building which contained various oils, grease and solvents (**Figure 2b**). An internal audit by Boral in 1996 (not cited by Woodward-Clyde or JBS&G) noted that the surface soils in the area were contaminated with oil;
- It was noted that ash was deployed in manufacturing Besser bricks. The ash was noted to have been stockpiled on unsealed ground 100 m west of the former factory building. The exact location of stockpiled ash was unable to be ascertained by JBS&G;
- Woodward-Clyde cited an internal audit report by prepared by Boral (1996) (a copy of which was not provided) indicated the following:
  - Various polychlorinated biphenyl (PCB) containing equipment (transformers and capacitors) were present on the site in various locations including outside the south-western wall of the factory building (**Figure 2b**). The capacitors were reportedly disposed off-site when Boral vacated the site.; and
  - A large stockpile of waste (bricks and raw materials) was present to the south east of the Plant 1 (consistent with **Section 3.4**).
- Wastewater from the colouring machines (oxides) and polishers was identified to be pumped via underground lines to two settling pits prior to being direct to an overland wastewater recycling system;
- Localised staining was observed underlying large manufacturing equipment (besser block presses) within the factory building; and
- Disused machinery was being stored outside the western wall of the former brickworks factory building on sealed and unsealed ground.

Woodward-Clyde (2000) undertook a program of soil, sediment and surface water sampling and analysis to assess the potential impacts from the identified land uses. The investigation included the advancement of 87 soil bores (**Figure 3**) across the site. Analytical data was not cited by JBS&G. Woodward-Clyde reported:

- Generally low levels of contaminants with most analytes below the criteria for industrial land use (compared against NEPC 1999). Traces of total petroleum hydrocarbon (TPH) were detected in three soil samples below the relevant criteria (maximum concentration of 665 mg/kg in SB73); and

[16] Note, the figure (**Appendix ***) shows this to be to the south of the factory building.

- Water and sediment samples showed low levels of contamination, all of which were within the relevant human health criteria for industrial land use, although some of the latter exceeded the (then) interim sediment quality guidelines for chromium, copper, nickel, lead and zinc.

JBS&G note the investigation involved the collection of composite samples to target AECs and provide broad site coverage. Sampling and analysis for COPCs was considered to be generally appropriate. Noting the lapse in time since the investigation was conducted, Woodward-Clyde (2000) is generally considered to provide a reasonable baseline understanding of the site setting and potential contamination sources under occupation by Boral Bricks, prior to occupation of the lot by Austral Masonry.

4.1.2 Coffey Due Diligence Environmental Site Assessment (Coffey 2013)

Coffey conducted a due diligence assessment within Lot 10 DP 1022044 and Lot 216 DP 1030744, with the objective to identify existing contamination status at the site and determine the suitability of the area for ongoing commercia/industrial land use.

The scope of work undertaken by Coffey (2013) the following:

- Review of previous environmental site assessment conducted by Woodward-Clyde (2000);
- Targeted soil, sediment and surface water investigation program at selected AECs, supplemented by a limited sampling program in low risk areas to provide broad site coverage which involved the collection of:
    - Soil samples from 40 borehole locations (BH1 – BH40) and sediment samples from 3 locations (SED1 – SED3) (**Figure 3**), with selected samples analysed for heavy metals, polycyclic aromatic hydrocarbons (PAHs), benzene, toluene, ethylbenzene, toluene, xylene (BTEX), total petroleum hydrocarbons (TPHs), organochlorine pesticides (OCPs), PCBs and asbestos. Laboratory results were then compared against the Health-based Investigation Level (HIL-F), Table 5-A of NEPC (1999) pursuant to commercial/industrial land use; and
    - Surface water samples from 3 locations (SW1 – SW3), with selected sampled analysed for heavy metals, PAHs, BTEX, and TPHs and compared against ANZECC (2000) 95% species protection for freshwater aquatic ecosystems.

Data as presented by Coffey (2013) is provided in **Table E** (**Appendix B**). The following was reported by Coffey (2013):

- Laboratory analysis of selected soil and sediment samples returned concentrations below the respective laboratory limit of reporting (LOR);
- Laboratory analysis of surface water samples returned concentrations below the respective LOR with the exception of sample SW2, where heavy metal concentrations returned minor exceedances of the adopted criteria for arsenic, cadmium, chromium, cobalt, copper, lead, nickel, and zinc. The surface water sample was collected from a concrete lined settling pit located to the west of Plant 1 (**Figure 3**);
- Groundwater seepage was reported at a depth of 3.3 m bgs at one borehole location (BH17). JBS&G note this may indicate the potential for perched groundwater at the site; and
- Asbestos was identified at sample BH8/0.0-0.2m. Coffey inferred that the asbestos was potentially sourced from fall-out from asbestos roofing which was adjacent the sample location.

In summary, Coffey (2013) concluded that no gross or widespread contamination existed for the portion of the site and deemed the property was suitable for a continued commercial/industrial land use scenario.

JBS&G note given the due diligence nature of the assessment, laboratory analysis was conducted for a limited suite of contaminants and did not address all COPC for identified AECs. No PCB or semi/volatile organic compound (s/VOC) analysis was conducted in vicinity of waste oil and petroleum storage and handing areas. The investigation did not address potential contamination associated with known former petroleum storage infrastructure, including a former UST identified by Woodward-Clyde. Groundwater was not assessed as part of the investigation.

Coffey (2013) did not conduct further investigation in an area noted by Woodward-Clyde (2000) to contain buried asbestos waste (**Figure 2b**). Noting Woodward-Clyde (2000) reported the asbestos waste to have been removed in 1996 (based on anecdotal evidence only), JBS&G consider the potential for residual asbestos impacts within this area to remain.

Coffey (2013) reported that the thickness of the fill material could not be determined during the investigation, however the maximum recorded depth of 4 m was encountered at BH22. Noting this, no sampling and analysis of fill material was conducted at depth (predominate fill analysis was conducted within the top 0.5 m bgs).

4.1.3 Combined Phase 1 and Phase 2 Environmental Assessment (DLA 2017)

This report prepared for a Lot 10 DP 1022044 documents a Phase 1 and 2 ESA to provide an overview of the potential impacts of past and current land use activities on the site since the initial assessment was conducted by Woodward-Clyde (2000). The scope of works undertaken for DLA (2017) is outlined below. Historic sampling locations are shown in **Figure 3**. The investigation included the following:

- Detailed site inspection and identification of 15 AECs;
- The collection soil samples from 32 borehole locations and two sediment samples; and
- Collection of surface water samples from two locations and the installation and sampling of a single groundwater monitoring well.

Data as presented by DLA (2019) is provided in **Table E** (**Appendix B**). Based on the environmental program, the following was presented:

- Various anthropogenic wastes (ash, building rubble and other filling) were noted in soil, albeit to a limited extent;
- Analysis of collected soil and sediment samples indicated that all concentrations were below the relevant NEPC (2013) health criteria (HIL-D) and ecological screening levels (ESLs) for a commercial/industrial land use scenario;
- Low level copper concentrations were reported to exceed the adopted ecological criteria for 95% species protection for freshwater in two surface water samples collected from settling ponds (SP2 and SP3) and in groundwater from one monitoring well (MW30);
- Hazardous building materials (asbestos, PCBs) were identified within current/former site structures;
- DLA indicated that previous investigations reported the existence of asbestos containing material (ACM) burial at 'AEC10', however no sample locations were made available to JBS&G; and
- In the present state DLA consider the site to be suitable for continuing commercial/industrial land use.

JBS&G note DLA (2017) did not compare analytical results against relevant Ecological Investigation Levels (EILs) pursuant to the requirements of NEPC (2013). DLA (2017) did not conduct further investigation in an area noted by Woodward-Clyde (2000) to contain buried asbestos waste (**Figure 2b**). Noting Woodward-Clyde (2000) reported the asbestos waste to have been removed in 1996 (based on anecdotal evidence only), JBS&G consider the potential for residual asbestos impacts within this area to remain.

DLA (2017) conducted a broad suite of analysis to target identified AECs. JBS&G note samples were not collected nor analysed from surface soils (or directly underlying hardstand pavement). Samples were collected at a depth of 0.5-0.6 m bgs. As such, JBS&G consider that should localised contamination be present in surface soils (including potential leaks/spills associated with hydrocarbon/chemical storage and/or asbestos contamination from known hazardous building materials etc.) they may not have been captured as part of the investigation.

JBS&G note that only one groundwater well was investigated (BH/MW30), whereas a minimum of three wells should be installed to determine flow direction and to determine baseline groundwater conditions around former petroleum storage locations, particularly underground petroleum storage systems (UPSS) as identified at the site (**Figure 2b**).

4.2 Lot 107 DP 1028208 – Boral House

4.2.1 JBS&G Preliminary Contaminated Land Assessment (JBS&G 2019a[17])

JBS&G conducted a preliminary contaminated land assessment within Lot 107 in DP 1028208, with the objective to assess the contamination status of the site and feasibility of proposed future developments.

JBS&G (2019a) conducted a detailed site inspection which identified the presence of fill materials associated with historic land use (significant ground disturbance), two electrical transformers and general site activities associated with more recent land use (vehicle storage) which may pose potential sources of contamination. JBS&G (2019a) noted petroleum storage within this portion of the site including a single 2,500 L diesel AST and small LPG AST, which were observed to be in good condition, appropriately bunded with no evidence of leaks or spills. Given the age and condition of the ASTs, JBSG did not consider the ASTs to pose a potential risk of soil, soil vapour or groundwater contamination nor a risk to current/future site receptors. As such no further consideration was warranted

The scope of works comprised the following:

- Review of environmental setting, planning certificates, EPA licences and environmental incidents, historical photographs, as well as heritage records pertaining to the site and immediate surrounds;
- Advancement of 43 soil sampling locations (27 test pits), eight surface samples, four hand augers and three boreholes to depths between 0.1 and 8 m bgs and collection of representative soil samples;
- Conversion of three boreholes to groundwater monitoring wells to 8 m bgs, however collection of groundwater samples was not undertaken as the wells remained dry during the investigation; and
- Comparison of laboratory results against commercial/industrial land use criteria (HIL-D), as derived from NEPC (2013).

Based on the investigation the following was reported:

[17] *Preliminary Contaminated Land Assessment – Lot 107 DP 1028208, Clunies Ross Street, Pemulwuy, NSW (Rev 1)*, dated 17 June 2019

- Laboratory results returned concentrations of heavy metals and PAHs (benzo(a)pyrene (B(a)P)) above the adopted ecological criteria, however JBS&G (2019) did not consider the minor exceedances to represent an unacceptable risk under a proposed commercial/industrial land use scenario, and given the existence of established and healthy site vegetation;
- The three installed groundwater wells were reported to be dry at the time of investigation, as such no groundwater samples were collected. Groundwater was therefore inferred to be present at depths greater than 8 m bgs;
- Approximately 300 m^3 of asbestos impacted in-situ fill material was identified adjacent to the north eastern portion of the lot;
- Asbestos fragments were observed in an embankment, associated with former service infrastructure (conduit/service pit);
- Approximately 50m^3 of scattered anthropogenic material including building and demolition waste (brick, concrete, scrap metal) and general rubbish (discarded fencing, tyres etc) were identified in the south western portion of the site; and
- In summary, JBSG (2019) concluded that remediation/management of asbestos impacted soil was required in ensure the site was suitable for commercial/industrial site suitability.

4.2.2 South East Boral House - Asbestos Clearance (JBS&G 2020b)

JBS&G (2020b[18]) conducted an asbestos clearance following make-safe works (by others) to remove previously identified (JBS&G 2019a) bonded ACM at the sites surface within the southern portion of the site (associated with former site service infrastructure). JBS&G (2020) concluded that, following make-safe works, bonded ACM at the site surface had been adequately removed and that the area was safe for re-occupation under normal controls. JBS&G (2020) noted the potential remained for further ACM infrastructure to be potentially present within the adjacent embankment/service easement.

4.3 Lot 63 DP 752051 – 615A Great Western Highway

Lot 63 in DP 752051 (615A Great Western Highway) is currently being remediated in accordance with the Remedial Action Plan (RAP) (JBS&G 2019c, **Section 4.3.4**) prepared for this portion of the site as part of the contract of sale between the Cumberland Council and ISPT. Lot 63 in DP 752051 is currently being remediated for commercial/industrial land use, unencumbered by any environmental planning instrument (i.e. environmental management plan (EMP)).

The following summary of previous investigations for Lot 63 has been presented, noting that, given the site is currently being remediated and is subject to NSW EPA accredited Site Auditor review (to ensure the site is suitable for commercial/industrial land use) no further evaluation of the lot specific data set for was warranted as part of the investigation outlined herein (beyond the summary presented below) and as such has been excluded from the evaluation of the current contamination status of the site as discussed in **Section 11**.

4.3.1 Due Diligence Contamination Investigation, Douglas Partners (DP 2018[19])

Douglas Partners (DP) completed a due diligence investigation for a portion of the site (Lot 63 DP 752051) in December 2018 to assess potential contamination and draw conclusions regarding the site suitability for the proposed redevelopment.

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[18] *South East Boral House – Asbestos Clearance (Rev 1).* JBS&G Australia Pty document 56425/127379 Ltd dated 11 February 2020 (JBS&G 2020)

[19] *Report on Due Diligence Contamination Investigation - Proposed Commercial Development 615A Great Western Highway, Pemulwuy*. Douglas Partners Pty Ltd dated 7 December 2018, DP (2018);

The due diligence comprised a combined desktop study and limited soil sampling across accessible portions of the site. DP (2018) reviewed and included two earlier reports relating to the site:

- Alliance Geotechnical Pty Ltd, Supplementary Stage 1 Preliminary Site Investigation, 615A Great Western Highway, Pemulwuy, NSW, Lot 63 in DP752051, reference 8068-ER-1-1 dated 10 October 2018 (Alliance 2018; and
- Geotechnique Pty Ltd, Preliminary Contamination Assessment (Revised), Lot 63 in DP752051, Clunies Ross Street, Pemulwuy, NSW, reference 11762/1-AAR1, dated 28 July 2008 (Geotechnique 2008).

The intrusive investigation was limited to the advancement of seven (7) test pits via excavator within accessible areas of the site.

Key findings of the DP due diligence are summarised below:

- The site comprised a generally vacant vegetated parcel of land which had been subject to significant ground disturbance (filling) between 1965 and 1982.
- Potential sources of contamination at the site were identified as:
    - Imported fill; and
    - Fly tipped waste.
- Soil analysis undertaken on collected samples indicated that chemicals of concern were generally within the adopted site assessment criteria (NEPC (2013) HIL D – Commercial/Industrial land use);
- Field works reported fill containing anthropogenic material (glass, brick, tyre, plastic, concrete etc.) to a maximum depth of 1.5 m below ground level. Weathered dolomite was encountered underlying fill materials at three locations;
- Fill was noted to contain elevated heavy metal concentrations;
- Surface anthropogenic materials were identified and require removal prior to commencement of earthworks. It was estimated 20 to 40 m^3 of waste will require to be removed; and
- Bonded ACM was identified at three of the seven advanced locations (TP1, TP4 and TP5).

The findings from the limited intrusive investigation supported Douglas Partners' conclusion following the desk top study of a low potential for contamination across this portion of the site.

JBS&G note the number of sampling locations advanced in DP (2018) was not acquiescent with EPA (1995[20]) *Sampling Design Guidelines* for an area of 8 114 m^2.

4.3.2 Due Diligence Assessment (JBS&G 2018)

JBS&G (2018[21]) conducted a due diligence assessment to further characterise the extent of potential asbestos impacts at the site. The investigation included a review of DP (2018) and the implementation of a sampling program in accordance with relevant EPA made or endorsed guidelines.

The field program involved the advancement of 20 test pit locations via an excavator on an approximate grid across the site. Asbestos analysis undertaken on collected soil samples indicated the following:

[20] *Contaminated Sites: Sampling Design Guidelines*. NSW Environment Protection Authority 1995 (EPA 1995)

[21] *Additional Land Contamination Assessment – 615A Great Western Highway, Pemulwuy, NSW*. JBS&G Australia Pty Ltd dated 18 December 2018 reference 55756/119840 Revision 1 (JBS&G 2018)

- Trace asbestos fines/friable asbestos (AF/FA) within fill material at six (JB03, JB06, JB08, JB10, JB11 and JB16) of the 20 advanced sample locations. AF/FA exceeded the adopted health-based criterion in fill at one sample location (JB06);
- ACM fragments were identified within fill at 10 (JB01, JB02, JB03, JB05, JB06, JB07, JB08, JB09, JB10 and JB16) of the 20 advanced sample locations; and
- Aesthetic issues in the form of general and building/demolition waste within the fill material were identified. JBS&G (2018) noted where fill material is to remain, consideration should be given to placement of impacted soils within areas where they will not be accessible/observable to future site occupants/workers upon completion of development activities.

JBS&G (2018) made the following conclusions/recommendations:

- It was recommended that, prior to submission of development applications to Council, the client conducts a detailed investigation of the lot to refine the remedial extent required to make the site suitable for the proposed land uses;
- The site will require to be managed under an asbestos management plan (AMP) given the identification of asbestos in exceedances of site suitability criteria; and
- Additional investigations and a remedial action plan (RAP) would be required to be prepared to address the presence of the aforementioned impacts and provide an appropriate framework for implementation of management/remediation activities and subsequent validation to demonstrate the suitability of the lot.

4.3.3 Detailed Site Investigation (JBS&G 2019b)

JBS&G (2019b[22]) conducted a DSI to further characterise the lot and refine the remedial extents. The investigation comprised a review of previous investigations, updated EPA/heritage searches, and involved implementation of a systematic and targeted soil sampling program (48 test pit locations in total). The sampling density was double EPA 1995 sampling design guidelines as required by WA DOH (2018[23]) which are referenced by NEPC (2013).

Asbestos quantification (AQ) was completed on fill material to a maximum depth of 3.0 m bgs. Asbestos impacted fill was restricted to a distinct fill horizon which overlayed reworked dolerite/shale and/or natural soil/bedrock which was reported to be free of anthropogenic material and asbestos.

JBS&G (2019b) reported the following:

- Surface (0-0.1 m) ACM was observed at 29 of the advanced sample locations;
- Sub-surface ACM (present/absent) was reported in fill at 30 locations;
- ACM in fill (below 0.1 m bgs) exceeded the adopted commercial/industrial health screening level (HSL D) criterion in 10 L samples (NEPC 2013 protocol) at six locations (AQ14 0-0.4, AQ24 0.1-1.1, AQ27 0.1-0.7, AQ32 0.1-0.7, AQ34 0-1.0 and AQ38 0.1-1.1). ACM was reported below the adopted ACM HSL D criterion in 10 L samples in fill (below 0.1 m bgs) at 21 additional locations;
- A total of 98 soil samples were submitted to the laboratory for asbestos analysis. Five samples (AQ19 0.1-0.9, AQ20 0.1-1.1, AQ40 0.1-1.1, QC01 (AQ40 0.1-1.1) and AQ44 0.1.-0.6)

[22] *Detailed Site Investigation – 615A Great Western Highway, Pemulwuy, NSW*. JBS&G Australia Pty Ltd, reference 56047/121406 Rev 1 dated 1 April 2019 (JBS&G 2019b)

[23] *Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, May 2009. Western Australia Department of Health (DOH), (DOH 2018)

from fill at four locations exceeded the adopted AF/FA HSL D criterion of 0.001% w/w in 10 L samples. Ten additional locations reported trace levels of AF/FA in fill below the adopted AF/FA criterion;

- Based on the results, asbestos impacted fill (absence/presence) was restricted to a discrete soil type of brown silty clay with varied inclusions of porcelain, brick, metal, slag, timber identified from surface to a maximum depth of 2.0 m bgs across the majority of the lot. Anthropogenic inclusions observed in fill under a commercial/industrial land use scenario were not considered to pose an unacceptable aesthetic issue with the notable exception of fill within the north eastern portion of the lot;
- Lead was reported at two locations (three samples; AQ40 0.5-1.1 (2100 mg/kg) and duplicate QC01J (1900 mg/kg) and AQ45 0.1-0.2 (1800 mg/kg)) exceeding the adopted health criterion. Following statistical evaluation of the data set, the lead exceedances were not considered to represent an unacceptable health risk;
- Heavy metal concentrations exceeded the adopted ecological criteria at a number of locations. However, with consideration of the proposed development comprising a commercial/industrial allotment surfaced by hardstands these exceedances were not considered to represent unacceptable risk noting established site vegetation at the time of investigation appeared healthy and any future flora to be established in this portion of the site would likely be within constructed garden beds/imported growing media;
- Fill was reported to contain low leachate properties and not to represent a risk to groundwater. Noting the proposed development will is anticipated to be largely paved, groundwater infiltration and in turn migration is limited. It was noted that fill at sample AQ40 0.5-1.1 reported a lead concentration which demonstrated a moderate leachability. Notwithstanding this material was required to be removed due to the reported AF/FA exceedances (AQ40 0.1-1.1);
- Based on a detailed desktop assessment, groundwater was noted likely to be saline and located at depth, and on this basis, it was not considered be suitable for beneficial re-use;
- Bulk anthropogenic / building and construction waste was identified at the lot surface and in areas of fill at depth and was considered to pose an aesthetic issue which required remediation (removal). It was estimated approximately 100 to 200 m^3 of waste was present on site;
- Reworked dolerite/shale materials and natural weathered dolerite were identified underlying fill materials. There was no evidence of staining, odours, ACM or gross anthropogenic waste observed in materials underlying fill at the lot; and
- Based on review of the analytical results fill materials and reworked natural soils at the lot were reported to generally fall within the general solid waste (GSW) (non-protrusible) NSW Waste Classification (EPA 2014[24]) thresholds, and classifiable as Special (Asbestos) Waste where asbestos is present. Fill at sample location AQ40 0.5-1.1 was classifiable as restricted solid waste (RSW)/Special (asbestos).

JBS&G (2019b) concluded:

- A RAP should be prepared for the lot to address the above aesthetic and asbestos impacted media as follows:

[24] *Waste Classification Guidelines Part 1: Classifying Waste*. NSW EPA 2014 (EPA 2014)

- surficial and sub-surface anthropogenic materials representing an aesthetic issue requiring remediation;
- AF/FA impacted fill at five locations (DSI and inclusive of JBS&G (2018)). It was estimated approximately 550 m^3 of AF/FA impacted fill required removal from the area; and
- ACM was identified within a discrete fill horizon and considered to pose an unacceptable health risk requiring remediation to facilitate commercial/industrial land use without ongoing management. Following removal of AF/FA impacted fill, it was estimated that 3 800 m^3 of ACM impacted soil required remediation.

4.3.4 Remedial Action Plan (JBS&G 2019c)

JBS&G (2019c[25]) prepared a detailed RAP to address unacceptable levels of asbestos and anthropogenic waste identified in JBS&G (2019b) to make the site suitable for commercial/industrial land use unencumbered by any management plans (EMP etc.). The preferred remedial method was to excavate and dispose of friable asbestos hotspots (offsite), with the balance of impacted fill to be excavated and subject to rake/tyne and picking of bonded ACM and anthropogenic waste considered to pose human health and aesthetic issue, respectively.

4.4 Prospect Logistics Estate Phase 1 and Phase 2 ESA (JBS&G 2020a)

JBS&G (2020a) prepared a site wide Phase 1 and Phase 2 ESA to address the key issues outlined in the Planning SEARs and to satisfy the requirements of SEPP 55 to demonstrate the site is suitable or can be made suitable for its proposed uses.

JBS&G (2020a) included the collation and review of previous environmental reports (as made available) supplemented with review and documentation of regional geological, hydrogeological, topographical and site history information to identify areas of potential AECs and associated COPCs which may be present at the site. The ESA included the development of a detailed conceptual site model (CSM) of potential contamination sources, pathways and receptors to guide the investigation.

JBS&G (2020a) identified the following with regard to the contamination status of the site:

- Investigations across Lot 10 DP 1022044, when combined, have generally satisfied the sampling density requirements as per EPA (1995) and NEPC (2013);
- A range of potentially contaminating land use activities, including the presence of current/former petroleum and chemical storage, hazardous building materials, waste material production and placement of fill of unknown origin were identified and targeted by previous investigations;
- Fill is present across the majority of the site to depths of between 0.1 m and 4 m bgs and was noted to comprise a combination of sandy gravelly clays and reworked natural materials (shales/dolerite);
- Lot 63 DP 752051 has been subject to extensive characterisation and is currently being remediated (as part of the sales contract between ISPT and Council) to make the site suitable for commercial/industrial land use without the requirement for ongoing management;
- The same impacted fill profile identified on Lot 63 DP 752051 was identified extending beyond the Lot boundary to the south (Lot 107 DP 1028208), albeit to a limited extent. Approximately 300 m^2 of asbestos impacted soil[26] was reported adjacent Lot 63 in Lot 107 to

[25] *Remedial Action Plan – 615A Great Western Highway, Pemulwuy, NSW*. JBS&G Australia Pty Ltd, reference 56047/123106 Rev 1 dated 16 July 2019 (JBS&G 2019c)

[26] Note, data assessment conducted herein including interpolation of additional samples (advanced as part of the DGI) indicated a volume of approximately 200 m^3 of impacted fill material is anticipated within this portion of the site.

the south are considered to represent an unacceptable health risk requiring remediation and/or management;

- Potential remains for the same fill profile to be present adjacent to Lot 63 in other areas of the site;
- Asbestos previously identified at the site surface in the southern portion of Lot 107 (JBS&G 2019a) was subsequently removed as part of make safe works (JBS&G 2019c), based on previous investigations the potential remained for further ACM to be present within a former service easement within the southern portion of Lot 107;
- Asbestos was identified at one location adjacent to current structures (identified to contain hazardous building materials) in Lot 10 DP 1022044;
- Former UPSS and other petroleum storage (current/former) have been identified at the site which will require removal (formal decommissioning[27]) and/or management including potentially impacted soils and/or groundwater relevant to the proposed land use in (NEPC 2013);
- Soil sampling did not identify the presence of chemical COPC above the adopted health criteria across the site;
- Copper and zinc concentrations exceeding the ecological criterial within Lot 107 at three locations (adjacent to Lot 63) were reported the distinct fill material noted to contain ACM and scrap metal (currently being remediated on Lot 63) and were considered likely associated with metal waste inclusions. The reported concentrations were not considered to represent an unacceptable ecological risk under the proposed redevelopment scenario;
- Low level chromium concentrations at several locations were considered representative of natural background conditions associated with the underlying geology (ultramafic and mafic igneous rock) and were not considered to represent an unacceptable ecological risk at the site;
- A single B(a)P concentration exceeding the ecological criteria was not considered to represent an unacceptable risk for the intended commercial/industrial use of at the site;
- Limited sediment assessment identified low level heavy metal concentrations exceeding the conservative ecological assessment criteria (ANZG 2019) for the 95% species protection in freshwater environments. Heavy metals were considered not to represent an unacceptable risk at the site, noting they were likely reflective of natural background conditions (associated with the underlying geology and/or conditions to be expected in urban environments); and
- Limited surface water and groundwater analysis at the site did not identify gross or widespread contamination. Low level heavy metal concentrations reported above the adopted ecological site criteria are considered reflective of regional background conditions as to be expected in urban/industrial environments and are not considered to represent an unacceptable risk at the site or to downgradient disturbed natural environments (Girraween Creek).

As part of the assessment of potential contamination as a result of current/former site uses, JBS&G (2020a) identified a range of data gaps across the site. The assessment included the advancement of 12 test pit locations and sampling of soil for COPC within Lot 107 DP 1028208, south of the current

[27] In accordance with Guidelines for Implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008, Department of Environment, Climate Change and Water NSW, September 2009 (DECC 2009).

assessment area, to address identified data gaps within this portion of the site and to provide adequate characterisation data. The implementation of the targeted sampling plan identified the following:

- Fill material within the south western portion of the site was generally consistent with reworked natural material (shales and dolerite) as previously identified across the site and is considered to not represent an unacceptable risk at the site;
- Chromium reported above the adopted ecological criterion at one location (TP07) was considered representative of the underlying igneous geology (subject to quarrying) and was not considered to represent an unacceptable risk to future ecological receptors; and
- No further ACM was identified within the former service easement. Noting detailed intrusive investigation precluded by dense vegetation. Should further asbestos infrastructure (conduits) be present within this portion of the site then it is anticipated it can be dealt with under an unexpected finds protocol, to be implemented during future remedial/redevelopment works.

JBS&G (2020a) considered that data gaps for Lot 107 DP 1028208 had been adequately addressed. The investigation identified a range of other data gaps across the site which required to be addressed prior to issue of a construction certificate. These data gaps have been detailed in **Section 5**.

JBS&G (2020a) concluded the site can be made suitable for the proposed land use subject to remediation/management of identified contamination and that the investigation was considered to have generally satisfied the requirements of the SEARS.

JBS&G (2020a) recommend that a DGI be conducted prior to issue of a construction certificate to address identified potential contamination at the site following which a RAP be prepared to describe the required remediation and validation works to ensure the site is suitable for the proposed commercial industrial land use without ongoing management.

4.5 Hazardous Building Material Report (JBS&G 2020c)

JBS&G (2020c[28]) conducted a pre-demolition hazardous building materials survey (HBMS) was conducted at the Austral Masonry site (which forms part of the assessment area, as defined herein) to identify the presence of hazardous building materials within the structures that would be required to be removed prior to proposed demolition.

The structures were inspected for the following hazardous materials:

- ACM;
- Asbestos containing dust (ACD);
- Lead based paints (LP);
- Lead containing Dust (LCD)
- Synthetic mineral fibres (SMF); and
- PBCs.

The investigation reported that identified and suspected hazardous building materials were observed throughout the property as a result of visual identification and laboratory analysis. The investigation identified friable asbestos within dust accumulated within Plant 2, and external to the

[28] Hazardous *Building Material Survey Report, Austral Masonry.* JBS&G Australia Pty Ltd dated 18 September 2020 (JBS&G 2020c).

building associated with ACM roofing/downpipes and eves affixed to the building. Lead paint, and accumulated lead dust were identified within several buildings/locations.

A number of the identified hazardous building materials were considered to present an exposure risk to current and future site occupants, maintenance workers/contractors and demolition workers if they are not appropriately managed/removed.

It was recommended that a hazardous materials management plan be prepared for the site detailing the procedures for the management and removal of the identified hazardous materials to be implemented prior to and for the duration of the proposed demolition and refurbishment works.

5. Data Gaps

Based on the review of the site history and previous site investigation data as presented in JBS&G (2020a) and summarised herein, the following data gaps have been identified within the assessment area which require to be addressed:

Lot 216 DP 1030744

- Additional sampling and analysis required to address identified sources of potential contamination (surface water/groundwater/sediment and surface soils/fill) and satisfy the required sampling density in accordance with the *Sampling Design Guidelines* (EPA 1995) and NEPC (2013).

Lot 601 DP 1047403

- Additional sampling and analysis required to address identified sources of potential contamination (fill) and satisfy the required sampling density in accordance with EPA (1995) and NEPC (2013).

Lot 602 DP 1047403

- Additional sampling and analysis required to address identified sources of potential contamination (fill) and satisfy the required sampling density in accordance with EPA (1995) and NEPC (2013).

Lot 10 DP 1022044

- Additional sampling and analysis for a range of COPC (not adequately assessed in previous investigations) is required for surface water, sediment, soil and groundwater including VOCs and PFAS;
- Additional groundwater sampling and analysis is required down gradient of historic and current petroleum storage (ASTs and USTs) and/or chemical storage and handing areas;
- Additional soil sampling and analysis for a range of COPC is required (in surface soils and at depth) down gradient of historic and current petroleum storage (ASTs and USTs) and/or chemical storage and handling areas;
- Additional sampling and analysis of fill material is required from within the fill profile at depth (noting previous investigation generally assessed shallow fill) which excluded a substantial portion of identified fill material;
- Limited sampling and analysis of soil has been conducted underlying existing site structures (Plant 1 and Plant 2 (**Figure 2b**)), as such, sampling and analysis is required;
- Additional screening of asbestos in soil is required for land adjacent to Lot 63 DP 752051 (615A Great Western Highway) which has been extensively filled and identified to contain bonded and non-bonded (friable) asbestos and anthropogenic materials representing a potential human health and aesthetic issue (**Section 4.3**), respectively;
- Additional screening of potential residual waste and asbestos in soil is required in vicinity of a former “disused shed” located in the south west of the lot to confirm the previously reported buried waste material and asbestos lagging have been adequately removed;
- Additional investigation is required to assess soil physiochemical parameters such as pH and CEC to enable appropriate consideration of potential ecological risks consistent with current NEPC (2013) guidelines;
- No soil vapour assessment has been completed and this is required in areas identified as containing current and/or former potential sources of volatile contaminants; and

- Additional assessment is required to address the nature/extent of potential contamination associated with the presence of hazardous building materials (ACM, heavy metals, PCBs) identified within existing/former site structures which may have contaminated surrounding soils (due to damage/breakages/weathering etc).

6. Preliminary Conceptual Site Model

Based on detailed review of previous investigations (**Section 4**) conducted at the site, a range of data gaps (**Section 5**) have been identified within the assessment area which require further investigation. The following information presented herein together with the figures included with this report aid in presenting a CSM for the assessment area.

6.1 Potential Areas and Substances of Environmental Concern

Based on the site history review and observations of site conditions during the detailed site inspection, AECs and COPC have been identified associated with data gaps (**Section 5**) as presented in **Table 6.1**. Site features are shown on **Figure 2b**, AECs are shown on **Figure 4**.

Table 6.1 AECs and Associated COPC

AEC	COPC
AEC 1: Fill material from unknown sources	Heavy metals, PAHs, TRH, BTEX, OCPs, PCBs, PFAS and asbestos.
AEC 2: Potential Impacted Fill from Known Source (Lot 63, beyond the current assessment area (**Figure 2a**))	Heavy metals, asbestos and aesthetic issues.
AEC 3: Settling/Retention Ponds	Sediment Heavy metals, PAHs, OCPs/PCBs, TRH, VOC, asbestos and PFAS.
	Surface Water Heavy metals, PAHs, TRH/BTEX, VOCs, nitrate/nitrite, ammonia and PFAS.
AEC 4: Petroleum Storage	Heavy metals, PAHs, TRH/BTEX, VOC, sVOC
AEC 5: Hydraulic Oil Storage	Heavy metals, PAHs, TRH/BTEX, PCB and VOC/sVOC
AEC 6: Raw Material/Waste Storage	Heavy metals, PAHs, TRH/BTEX, OCP, PCB, PFAS and asbestos
AEC 7: Chemical Storage	Heavy metals, PAHs, PCBs, VOC/sVOC, TRH and PFAS.
AEC 8: Hazardous Building Materials	Heavy metals, PCBs and asbestos.
AEC 9: Electrical Transformers	Heavy metals and PCBs.
AEC 10: Parking areas	Heavy metals, TRH/BTEX and VOC.
AEC 11: Former location of inferred buried asbestos and waste material.	Heavy metals, PAHs, TRH, BTEX, OCPs, PCBs, PFAS and asbestos.

6.2 Potentially Contaminated Media

Potentially contaminated media present at the assessment area include:

- Sediments;
- Fill materials;
- Natural soils/bedrock;
- Soil vapour;
- Surface waters; and
- Groundwater.

Table 6.2 below provides a breakdown of potentially contaminated media with identified AECs presented in **Table 6.1**.

Table 6.2: Potentially Contaminated Media

AEC	Potentially Contaminated Media	Comment
AEC 1	Fill material	Potential remains for contamination in fill material resultant from historical/current manufacturing land uses, importation of fill materials of unknown origin or use of site waste materials to create former/existing site levels and/or as may be associated with former agricultural/industrial land use.
	Natural soils	Natural soils underlie fill materials and may potentially be impacted by the downward migration of contaminants through fill, particularly in open areas where infiltration is possible and/or where seepage water may pass through fill. Natural soils may also be impacted by contaminated groundwater migration.
	Groundwater/Surface Water	There is the potential for the leaching of contaminants vertically from fill into groundwater and/or migration of contaminants to onsite surface waters and/or potential off-site impacts.
AEC 2	Fill material	Potential remains for fill material with known heavy metal, asbestos and anthropogenic waste to extend beyond the Lot 63 DP752051 boundary into the assessment area.
	Natural soils	Natural soils underlie fill materials and may potentially be impacted by the downward migration of contaminants through fill, particularly in open areas where infiltration is possible and/or where seepage water may pass through fill. Natural soils may also be impacted by contaminated groundwater migration.
	Groundwater/Surface Water	There is the potential for the leaching of contaminants vertically from fill into groundwater and/or migration of contaminants to onsite surface waters and/or potential off-site impacts.
AEC 3	Surface water	Potential remains for contamination in surface waters resultant from historical/current manufacturing land uses.
	Sediment	Potential remains for accumulation of contaminants within setting ponds, particularly those that are highly sorbed and/or readily transported hydrologically.
	Groundwater	There is the potential for the migration of contaminants vertically from surface water/sediment leaching into groundwater.
AEC 4, 5, 7, 9 and 10	Fill material	Potential remains for contamination in fill resultant from spills, leaks of chemical, oil, petroleum and vehicle storage associated with the commercial/industrial land use of the site.
	Natural soils	Natural soils underlie fill materials and may potentially be impacted by the downward migration of contaminants through fill, particularly in open areas where infiltration is possible or where subsurface leakage (i.e from USTs) could occur or seepage water passes. Natural soils may also be impacted by contaminated groundwater migration.
	Soil vapour	Given the potential volatile nature of some contaminants, there is a potential for soil vapour to be a contaminated medium.
	Groundwater/Surface Water	There is the potential for the leaching of contaminants vertically from fill into groundwater and/or migration of contaminants to onsite surface waters and/or potential off-site impacts.
AEC 6	Fill material/natural soils	Potential remains for contamination in fill material resultant from raw material and/or waste material storage (fly ash/slag) used to create former/existing site levels. Given the nature and distribution of waste material there may be potential for the downward migration of contaminates through fill to the underlying natural soils
	Groundwater/Surface Water	There is the potential for the leaching of contaminants vertically from fill into groundwater and/or migration of contaminants to onsite surface waters and/or potential off-site impacts.
AEC 8	Fill material	Potential remains for hazardous building materials to have contaminated surrounding surface soil/fill material.
AEC 11	Fill material/natural soils/groundwater	Potential remains for contamination in fill material associated with formerly identified buried waste and asbestos. Given the nature of waste material is generally unknown there may be potential for the downward migration of contaminates through fill to the underlying natural soils and groundwater.

6.3 Potential for Migration

Contaminants generally migrate from a site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

The potential contaminants identified as part of the site/assessment area history review and previous investigation are generally in either a solid form (e.g. heavy metals, asbestos, etc.) and liquid form (e.g. fuel, lubricants, etc.), however, dependent upon concentrations, there is the potential for TRH/VOC impacts to occur in a vapour form also in soils underlying the assessment area.

As the assessment area is covered by a combination of concrete/asphaltic pavement and vegetation (landscape garden beds, grass cover and timbered areas), the potential for windblown dust migration of contamination from the assessment area is generally low. The potential for contamination migration via surface water movement and infiltration of water and subsequent migration through the soil profile is considered generally to be low where impermeable pavements exist and moderate where exposed surface soil is present. Drainage lines and non-bunded water detention/settling ponds are present within the assessment area and are considered to be a potential vector for contamination migration via surface water and sediments. As such, in these areas there is a moderate to high potential of subsequent contaminant migration via overland flow and/or through the soil profile (dependant on the nature of potential contamination).

Given that the underlying natural soil is anticipated to be of a low permeability (silty clays) which retard the movement of subsurface water, there is considered to be a low risk of potential for migration of contamination through surface soils and subsequently via groundwater at depth (dependant on the nature and distribution of contamination). Notwithstanding, the risk of groundwater impact is higher where current/former petroleum/chemical storage has been identified (particularly USTs).

The vapour generation potential associated with volatile and semi-volatile potential contaminants of concern (TRH, BTEX, VOCs) are identified as a potential migration pathway, particularly in areas where subsurface infrastructure, such as stormwater, sewer, USTs, etc. underlie the site.

6.4 Potential Exposure Pathways

Based on the contaminants of concern identified in various media as discussed above, the potential exposure pathways for the assessment area include:

- Inhalation of potential COPC including asbestos, heavy metal impacted dust and/or vapours migrating upwards from fill material of unknown origins or impacted surface soils resulting from historical leaks/spills, industrial activities etc.; and/or
- Potential dermal and oral contact to impacted soils as present at shallow depths and/or accessible by future service excavations across the extent of the assessment area; and/or
- Potential oral and dermal contact to surface waters and sediments within current/former settling pits as accessible by current and future site users and/or during future excavation/redevelopment; and/or
- Potential contaminant uptake by vegetation within landscaped areas.

6.5 Potential Receptors

Potential human populations who may be exposed to site impacts in the future (if they are not remediated or appropriate management is not implemented prior to or during development) include:

- Current and future occupants/workers/visitors who may potentially be exposed to contaminants of concern through direct contact with impacted soils / groundwater / surface waters and sediments and/or inhalation of dusts/fibres/vapours associated with impacted soils; and/or
- Excavation/construction/maintenance workers conducting activities, who may potentially be exposed to contaminants of concern through direct contact with impacted soils/groundwater/vapours present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Flora species to be established;
- Downgradient ecological receptors including the freshwater Girraween Creek; and
- Existing and/or future users/occupants of adjoining residential, commercial/industrial properties should contamination be identified to be migrating from the assessment area.

6.6 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPC as either liquids or gases.

Man-made preferential pathways are present throughout the assessment area, generally associated with fill materials, and at near surface depths over the remainder of the assessment area. Fill materials are anticipated to have a high permeability. A series of engineered drainage easements and interconnected settling/retention ponds exist within the assessment area and are considered potential preferential pathways for the migration of liquid and/or soluble COPC.

Sub-surface services are also present, or will be present as part of site redevelopment, throughout the assessment area. Preferential pathways can be created by the generally higher permeability backfill used to re-instate these trenches.

Preferential pathways are also important in the assessment of potential off-site sources of COPC. Preferential pathways are potentially present in the adjoining road network, as associated with service easements.

7. Sampling Analysis and Quality Plan

7.1 Data Quality Objectives

Data quality objectives (DQOs) are statements that define the confidence required in conclusions drawn for data produced for a project, and which must be set to realistically define and measure the quality of data needed.

DQOs have been developed for this DGI, as discussed in the following sections.

7.1.1 State the Problem

The site is proposed to be redeveloped to accommodate a commercial/industrial warehouse logistics estate (**Section 2.3, Appendix A**). Following review of previous investigations (**Section 4**) conducted at the site, data gaps that pose potential risks from soil, groundwater/surface water and vapour contamination were identified within the assessment area. As such, additional environmental data is required to address the identified data gaps and sufficiently characterise the assessment area to enable a RAP to be prepared that, when successfully implemented, will ensure the assessment area is suitable for the intended land use.

The investigation outlined herein has been undertaken to address identified data gaps (**Section 5**) within the assessment area to sufficiently characterise the assessment area in accordance with relevant EPA made and endorsed guidelines and to ensure the sampling density as specified in EPA (1995) and NEPC (2013) are achieved.

The broader site is considered to have been adequately assessed in accordance with EPA (1995) and NEPC (2013), as outlined in JBS&G (2020a). As outlined in **Section 4.3**, Lot 63 is currently being remediated for commercial/industrial land use (unencumbered by any environmental planning instrument i.e. EMP).

7.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017[29]), the following decisions must be made:

- Are there any unacceptable risks to likely onsite receptors from soil/sediment?
- Are there any issues relating to the local area background soil concentrations that exceed appropriate criteria?
- Are there any unacceptable risks to likely onsite receptors from groundwater/surface water?
- Are there any unacceptable risks to likely onsite receptors from vapours underlying the assessment area?
- Are there any impacts of chemical mixtures?
- Are there any unacceptable aesthetic issues?
- Is there any evidence of or potential for migration of contaminants from the assessment area?
- Is a site management strategy required?

7.1.3 Identify Inputs to the Decision

Inputs to the decisions are:

[29] *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd edition)*, NSW Environmental Protection Authority, October 2017 (EPA 2017)

- The results of previous assessments relevant to the areas of investigation, including background historical information, site observations, laboratory results and report findings;
- New environmental data collected by sampling and analysis and site observations made during the current investigation;
- Assessment criteria to be achieved as based on the intended land uses, preliminary design details and project objectives, as defined by assessment criteria nominated in **Section 8**; and
- Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality assurance/quality control (QA/QC) as per the data quality indicators (DQIs) established in **Section 7.1.6**.

7.1.4 Define the Study Boundaries

The study boundary comprises the extent of the assessment area as shown on **Figure 2** and detailed in **Table 1.1**.

The vertical extent of the study comprised:

- Soil - approximately 1-2 m into natural soils. In areas, samples locations were extended up to 10 m in depth (during installation of groundwater monitoring wells) to allow for the assessment of potential contaminant conditions at depth;
- Groundwater - sampling of existing and newly installed groundwater monitoring. New groundwater monitoring wells were installed to depths of approximately 2 m below the encountered water table or a maximum of 10 m bgs (whichever was shallower);
- Surface water/sediment – sampling of surface water and sediment adjacent to the banks of retention/settling ponds within the site boundary; and
- Soil vapour – a maximum depth of approximately 0.4 m below existing slabs in paved areas.

Seasonality was not assessed as part of this investigation. Data is therefore representative of the timing and duration of the current investigation in which site inspection and sampling occurred.

7.1.5 Develop a Decision Rule

Analytical data for potentially contaminated media was assessed against NSW EPA endorsed criteria as identified in **Section 8**.

Statistical analysis of the soil data set was undertaken, if required, in accordance with relevant guidance documents. The following statistical criteria was adopted:

- No analyte concentration in any sample exceeds the adopted criterion; or
- The upper 95% confidence limit on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) must be below the adopted criterion; and
- No single analyte concentration shall exceed 250% of the adopted criterion; and
- The standard deviation of the results for an analyte must be less than 50% of the criterion.

The decision rules adopted to answer the decisions identified in **Section 7.1.2** are summarised in **Table 7.1**.

Table 7.1 Summary of Decision Rules

Decisions Required to be Made	Decision Rule
1. Are there any unacceptable risks to on-site future receptors from soils/sediments?	Analytical data was compared against EPA endorsed criteria. The criteria in **Section 8.2** were adopted with respect to soil/sediment. If the statistical criteria were satisfied, the answer to the decision was **No**.

Decisions Required to be Made	Decision Rule
	If the criteria were not satisfied, the answer to the decision was **Yes**.
2. Are there any issues relating to the local area background soil concentrations that exceed appropriate criteria?	If COPC concentrations in soils exceeded published background concentrations (NEPC 2013), the answer to the decision was **Yes**. Otherwise the answer to the decision was **No**.
3. Are there any unacceptable risks to likely onsite receptors from groundwater/surface water?	Analytical data was compared against EPA endorsed criteria. The criteria in **Section 8.2** were adopted with respect to groundwater/surface water. If the statistical criteria were satisfied, the answer to the decision was **No**. If the criteria were not satisfied, the answer to the decision was **Yes**.
4. Are there any risks to likely onsite receptors from vapours underlying the assessment area?	Analytical data was compared against EPA endorsed criteria. The criteria in **Section 8.2** were adopted with respect to vapour. If the statistical criteria were satisfied, the answer to the decision was **No**. If the criteria were not satisfied, the answer to the decision was **Yes**.
5. Are there any impacts of chemical mixtures?	Were there more than one group of contaminants present which increase the risk of harm? If there is, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
6. Are there any aesthetic issues?	If there were any ACM fragments on the ground surface, any unacceptable odours or soil discolouration, or excessive extraneous/foreign/waste materials, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
7. Is there any evidence of, or potential for, migration of contaminants from the assessment area?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the assessment area? If yes, the answer to the decisions was **Yes**. Otherwise, the answer to the decision was **No**.
8. Is a site management strategy required?	Is the answer to any of the above decisions Yes? If **Yes**, a site management strategy is required. If **No**, a site management strategy is not required.

7.1.6 Specific Limits on Decision Errors

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA and NEPC (2013) and appropriate indicators of data quality (DQIs) established for the project as discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95 % compliance with DQIs.

The DQIs and data assessment criteria are summarised in **Table 7.2**.

- **Precision** - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** - measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across

the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.

- **Comparability** - expresses the confidence with which one data set can be compared with another. This is achieved by maintaining a level of consistency in techniques used to collect samples; ensuring analysing laboratories use consistent analysis techniques and reporting methods.
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is determined by there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Table 7.2 Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra laboratory)	1/20 samples[1]	<50% RPD[1]
Blind duplicates (inter laboratory)	1/20 samples[1]	<50% RPD[1]
Laboratory Duplicates	1/20 samples	<50% RPD[1]
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	-[2]
Samples extracted and analysed within holding times.	-	Soil: organics (14 days), inorganics (6 months)
Laboratory Blanks	1 per lab batch	< LOR
Trip spike	1 per lab batch	70-130% recovery
Storage blank	1 per lab batch	<LOR
Rinsate sample	1 per sampling event when non-disposable sampling equipment used	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All samples	All samples
Standard analytical methods used for all analyses	All samples	National Association of Testing Authorities (NATA) accreditation
Consistent field conditions, sampling staff and laboratory analysis	All samples	All samples[2]
Limits of reporting appropriate and consistent	All samples	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All samples	All samples[2]
Appropriate documentation	All samples	All samples[2]
Satisfactory frequency and result for QC samples		95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR<= Site assessment criteria

- [1] If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment was made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.
- [2] A qualitative assessment of compliance with standard procedures and appropriate sample collection methods was completed during the DQI compliance assessment.

7.2 Optimise the Design of Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in EPA (1995), including judgemental, random, systematic and stratified sampling patterns.

Based on review of previous analytical data, soil physical properties as summarised in **Section 4**, and identified AECs/COPCs (**Table 6.1**), a targeted sampling design was considered most appropriate for the current investigation to provide sufficient characterisation data to address identified data gaps (**Section 5**) within the assessment area.

7.2.1 Soil/Sediment Investigation

Soil sample locations were targeted (judgemental) to address identify data gaps (**Section 5**) and obtain general site environmental data in areas where no/limited data exists (i.e. deep fill material/soil underlying Plant buildings). To address data gaps in areas with high risk of potential contamination and provide new data for locations where previous data is uncertain, increased targeted sampling frequencies were completed. In accessible areas test pits were advanced to assist in the assessment of asbestos and identify potential aesthetic issues (foreign inclusions).

In addition, a detailed program of sediment sampling was undertaken from a series of retention/setting ponds across the assessment area. Sample locations are shown on **Figure 5**. Summary of identified data gaps, AECs and targeted sample locations is outlined in **Table 7.3** below.

Table 7.3 Summary of Soil/Sediment Investigation Sampling Program

Assessment of Data Gaps	AEC	Sample Locations
Assessment of general site fill for a range of COPC* (broad site and in areas of limited/no assessment (i.e. underlying buildings)). Assessment of site fill material at depth. Additional visual inspection of fill material for the presence of asbestos.	**AEC 1**: Fill Material from Unknown Sources	All sample locations
	AEC 6: Raw Material/Waste Storage	JB11, JB12, JB15(A), JB16 to JB19 (1-5), JB84
	AEC 9: Current/Former Electrical Transformers	JB29 and JB101
	AEC 10: Parking Areas	JB01 to JB10, JB13, JB14 (A-D), JB50, JB65, JB82, JB83,
Limited/no assessment of site fill adjacent to Lot 63 (known asbestos/heavy metal impacts)	**AEC 2:** Potential Impacted Fill from Known Source (Lot 63)	JB11, JB12, JB13, JB14 (A-D), JB15(A), JB16 to JB19 (1-5), JB20, JB21, JB22 (A-B), JB23, JB25, JB26, JB102
Targeted assessment of current/former petroleum/hydraulic oil/chemical storage for a range of COPC*.	**AEC 4**: Petroleum Storage	JB27 to JB29, JB35, JB31, JB32, JB36, JB37 to JB39, JB63, JB86, JB93, JB101, JB103 to JB105
	AEC 5: Hydraulic Oil Storage	
	AEC 7: Chemical Storage	
Assessment of accumulated sediment for a range of COPC*.	**AEC 3**: Settling/Retention Ponds	JBSED-01 to JBSED-09
Assessment of potential impacts to soil associated with known/potential hazardous building materials at the site	**AEC 8**: Hazardous Building Materials	JB64, PT2-6, PT2-7
Investigation to confirm formerly identified buried asbestos waste adjacent to a disused shed had been adequately removed.	**AEC 11**: Potential Buried Asbestos and Waste Material.	JB02 to JB10

*Range of COPC = potential contaminants not adequately addressed by previous investigations as outlined in **Table 6.2**.

7.2.2 Soil Vapour Investigation

Given the historical land use of the site and based on identified areas of petroleum and chemical storage/use within the assessment area, to assess the potential for vapour intrusion risks a targeted investigation of vapour conditions was implemented as follows:

- **VP01** to **VP07** - Advancement of seven sub slab sample locations in proximity/adjacent/downgradient to identified former hydraulic oil storage, hydraulic oil

pump houses and general chemical and petroleum hydrocarbon storage identified within Plant 1;

- **VP08** to **VP09** - Advancement of two sub slab sample locations within Plant 1 adjacent to equipment/hydrocarbon storage;
- **VP10** to **VP11** - Advancement of two sub slab sample locations adjacent/down gradient of identified abandoned diesel UST adjacent to the former brickworks' office building;
- **VP12** - Advancement of one sub slab sample location adjacent to a current diesel AST to the east of Plant 2;
- **VP14** to **VP15** - Advancement of two sub slab sample locations within the current/former workshop area;
- **VP13, VP16** to **VP18** - Advancement of four sub slab sample locations within Plant 2 adjacent to equipment/polish-wash/workshop etc; and
- **VP19** to **VP21** – Advancement of three sub slab sample locations adjacent/in proximity to current/former hydraulic oil/hydrocarbon storage, 'colour farm', hydraulic pump room and external triple interceptor wash bay.

This approach, supported with soil and groundwater analytical data, was implemented as it is considered sub-slab soil vapour measurements are the most direct evaluation of the potential for vapour intrusion into site structures. Sample locations are shown on **Figure 5**.

7.2.3 Groundwater Investigation

Previous groundwater investigations (**Section 4**) conducted within the assessment area were limited in extent and involved the sampling and analysis of groundwater of a single well (BH30/MW30). This well was unable to be located during the current investigation. Previous investigations across the broader site conducted by JBS&G (2019a) included the installation of three wells in the southern portion of the site, to a depth of 8 m bgs. No standing groundwater was identified to the maximum depth of investigation and groundwater was anticipated to be located at great depth in the southern portion of the site (**Section 2.5**).

The current investigation involved the installation of seven new groundwater monitoring wells (MW01 to MW07) across the assessment area. The positioning of these wells was designed to:

- Allow for assessment of groundwater condition across the site and address data gaps identified in **Section 5**;
- Allow for assessment of groundwater condition migrating onto the site/assessment area;
- Assess the soil and groundwater quality adjacent and/or down gradient of hydrocarbon/petroleum/chemical storage; and
- Allow for the assessment of groundwater condition leaving the site/assessment area.

Potential soil and groundwater impacts are largely anticipated to be associated with the current/former industrial land use involving storage and use of petroleum hydrocarbons (hydraulic oils, petroleum ASTs/USTs) and chemical use/storage. Groundwater wells were installed to provide broad site coverage and included a targeted investigation as follows:

- **MW01** – installation downgradient of the site (off-site boundary);
- **MW02** – installation downgradient of current/former hydrocarbon use/storage (Plant 1);
- **MW03** – positioned downgradient of current/former hydrocarbon use/storage (Plant 2) and of neighbouring properties;

- **MW04** and **MW07** – installation down gradient of former diesel UST;
- **MW05** – installation upgradient of the assessment area; and
- **MW06** – installation down gradient of current diesel AST.

The seven groundwater wells installed as part of the assessment outlined herein, coupled with additional surface water data collected from a series of down gradient water retention/settling ponds (**Section 7.2.4**) was considered appropriate to address this data gap. Sample locations are shown on **Figure 5**.

7.2.4 Surface Water Investigation

Previous surface water investigations (**Section 4**), by others, were limited in extent. As such eight additional representative samples were collected to address this data gap and supplement groundwater analytical data. Sample locations are shown on **Figure 5**.

7.3 Field Investigation Methodology

7.3.1 Soil/Sediment

In areas of hardstand pavement, soil samples were collected via a track mounted drill rig fitted with push tube and solid flight auger attachments. In areas of exposed surfaces (vegetated areas/garden beds/gravelled drives) soil samples were collected via a 5 tonne excavator with 300-500 mm wide bucket attachments. Where access constraints occurred (i.e. within areas of dense vegetation, garden beds not accessible by the drill rig/excavator), hand tools were employed to complete sample locations (hand auger/pick). The collection of soil samples was conducted in general accordance with the requirements of NEPC (2013) and other relevant EPA made or endorsed guidelines.

Soil samples obtained via the excavator were collected directly from the centre of the excavator bucket. Excess spoil was closely inspected for the presence of potential contamination (odours, staining, ACM and foreign inclusions). Surface soil at each location was inspected for the presence of foreign inclusions, odours, staining and/or ACM.

Where encountered, hardstand pavement (concrete/bitumen/pavers) was cored to provide access to the underlying soils. Discrete samples obtained via the drill rig were collected via a combination of push tubes/solid flight augers to a depth of approximately 1 m into natural soil, with some locations (in vicinity of potential chemical/hydrocarbon impact) further advanced through the natural profile to assess for potential contamination migration through the natural profile. Push tube sampling was generally conducted in vicinity of areas of potential volatile impacts, with 150 mm augers utilised in other areas to facilitate the inspection of fill materials for the presence of potential ACM.

Soil samples were collected at the site surface or directly underlying hardstand pavement (between approximately 0.1 m to 0.3 m), 0.5 m and then at 0.5 m intervals to a maximum depth of 1 m (on average) into natural materials (or prior refusal), whichever is the shallower. During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were recorded on field logs (**Appendix E**).

Collected samples were immediately transferred to laboratory supplied sample jars/bags (as appropriate). The sample jars/bags were then transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded to the testing laboratory with each sample batch. Based upon field observations, samples were analysed in accordance with the laboratory schedule (refer to **Table 7.4**).

All samples remain at the primary laboratory for a period of two months following the receipt of sample results for possible future analysis (subject to holding times) if required.

PID Screening

During site works, sufficient sample material was collected to allow for field testing using a calibrated photo-ionisation detector (PID) to assess the potential presence of VOCs including petroleum hydrocarbons. Samples obtained for PID screening were placed in a sealed plastic bag for approximately 2 minutes to equilibrate, prior to a PID being attached to the bag. Readings were then monitored for a period of approximately 30 seconds or until values stabilise and the stabilised/highest reading recorded on filed logs. The PID was calibrated prior to the commencement of field works and then check readings were completed on a daily basis during the field program using suitable calibration gas. Calibration certificates are provided in **Appendix H**.

Duplicate and Triplicate Sample Preparation

For discrete soil samples, field duplicate and triplicate samples were obtained using the above sampling methods. Each sample was divided laterally into three samples with minimal disturbance and placed in clean glass jars and/or bag (as appropriate). Each sample was labelled with a primary, duplicate or triplicate sample identification before being placed in the same chilled esky for transport to the laboratory.

Decontamination

Prior to the commencement of sampling activities, non-disposable sampling equipment including sampling trowel/knives were cleaned with a water/detergent spray, rinsed with water and then air dried. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent prior to the commencement of works. Sampling equipment was subsequently decontaminated using the above process between each sample location. Decontamination records are provided in **Appendix H**.

7.3.2 Groundwater/Surface Water

Groundwater

During the current investigation, seven groundwater monitoring wells (MW01 to MW07) were installed in areas to provide broad site coverage and in proximity to current/former hydrocarbon/chemical storage. New groundwater monitoring wells were generally installed within the unconfined aquifer identified within underlying Bringelly Shale. One well (MW04) was installed to target potential perched groundwater within the fill profile. One well (MW05) was installed into igneous bedrock within in the southern portion of the assessment area. Monitoring well locations shown on **Figure 5**.

The wells were constructed from 50 mm unplasticised polyvinyl chloride (uPVC) screen and casing, with appropriate gravel packs, bentonite seals, and lockable caps to complete the wells. The wells were then completed with steel gatic covers for trafficable environments.

Newly installed and existing groundwater monitoring wells were developed several days prior to sampling via the use of Waterra's Inertial Footvalves and high-density polyethylene (HDPE) tubing to ensure adequate connection to the aquifer and remove sediment disturbed during well installation. During development, the bores were rapidly purged and then allowed to recharge.

All monitoring wells were sampled using the following procedure:

- Prior to sampling, groundwater levels were gauged with an interface probe (IP) to assess standing groundwater levels (SWLs) and the potential presence of non-aqueous phase liquid (NAPL) within the groundwater well;
- Following gauging, HydraSleeves were placed in each well using PFAS free equipment. Each HydraSleeve remained in each well for a period of more than 24 hours before being removed for sampling. Groundwater collected from each HydraSleeve was transferred directly into laboratory supplied PFAS free sampling containers and placed in a chilled esky

for transport to the laboratory. PFAS sampling was conducted in general accordance with the Heads of EPAs Australia and New Zealand (HEPA) *PFAS National Environment Management Plan (NEMP) (Version 2.0)* (HEPA, 2020);

- Following PFAS sampling, low flow pumping was undertaken with a peristaltic pump using new disposable silicone tubing and disposable low-density polyethylene (LDPE) tubing for sampling at each monitoring well to remove standing/static water. The LDPE tubing was lowered to a maximum depth of two-thirds of the wetted screen length of the monitoring well prior to the commencement of purging;
- Purging of groundwater was then undertaken generally at a rate of 1L to 2L per minute while ensuring that the excessive drawdown did not occur (as measured by interface probe) during the pumping event;
- Measurement of field parameters including pH, conductivity, redox potential, dissolved oxygen and temperature was completed at a frequency of once every 1 to 5 minutes dependent on the purging rate, using a multi-parameter probe/meter and a flow cell;
- During the development, purging and sampling, features such as discolouration, staining, odours and other indications of contamination were noted of field forms;
- Groundwater samples were obtained using the low-flow peristaltic pump once readings of field parameters (pH, dissolved oxygen, electrical conductivity and redox potential) had stabilised;
- Collected groundwater samples were immediately transferred to sample containers of appropriate composition, which had been pre-treated in a manner appropriate for the laboratory analysis. Groundwater samples were obtained in a manner that ensures no headspace remained in the bottles, and where appropriate were filtered in the field prior to preservation;
- Each of the sample bottles were labelled with the project ID, date, sampler's initials and unique monitoring well ID (or QC sample name), using permanent ink marker on labels affixed to the sides of the bottles by the laboratory;
- All bottles were placed directly into a pre-chilled ice chest, for transport to the testing laboratories; and
- Chain of custody documentation were completed for each batch of samples relinquished to the laboratory and included: sample ID; number of bottles/vials; media type (i.e., water); project ID; name; date; and time of sampling and relinquishment.

Where minimal groundwater infiltration occurred, samples were collected using a disposal HDPE bailer to obtain a grab sample. At the completion of sampling at each location, single use sampling equipment was disposed of and re-useable equipment that potentially contacted groundwater including the interface probe was decontaminated as per the general procedures discussed above for non-disposable soil sampling equipment. Rinsate samples were collected to demonstrate the effectiveness of decontamination procedures.

Surface Water Sampling

Surface water samples were obtained using an extendable pole with collector attachment and/or a disposable HDPE bailer. Collected samples were transferred to appropriate containers and transported to the laboratory as per the methodologies outlined for groundwater above.

Samples were analysed in accordance with the laboratory schedule (refer to **Table 7.4**). Sample locations are shown on **Figure 5**.

7.3.3 Soil Vapour

The vapour assessment activities comprised sub-slab soil vapour sampling. The methodology was developed with consideration of the guidance on vapour sampling methods outlined in CRCCARE (2013[30]).

The sub-slab vapour locations were completed as follows:

- The concrete hardstand was punctured by rotary hammer drill, with a 16 mm drill bit, through to the underlying soils;
- A stainless-steel vapour pin (85 mm length) with silicon tubing sleeve was then inserted into the 16 mm core hole with a hammer and vapour pin installation tool;
- The drill hole was purged by pumping through a calibrated PID to screen for VOCs until stabilisation occurred. Following PID screening the drill hole was purged with a calibrated (**Appendix H**) GA5000/GFM gas meter during which concentrations of oxygen (O_2), carbon dioxide (CO_2), methane (CH_4), hydrogen sulfide (H_2S) and carbon monoxide (CO) were monitored until stabilisation;
- Following purging, a leak detection test was completed via placement of an isopropyl alcohol-soaked rag near to the vapour pin to assess the potential occurrence of leaks. The gas detector was monitored to ensure no elevations in PID occurred. Where VOC concentrations were significantly altered from the stabilised/purged concentration, this indicated a potential leak was present and isopropyl alcohol vapour was intruding into the nylon tube, the soil vapour probe was removed and reinstalled and the leak detection test was repeated;
- Following the leak detection test, a 7 L sample of soil vapour was removed from the sub-slab vapour probe using a calibrated low flow air pump over a period of 35 minutes;
    - A glass tube containing carbon sorbent media was fixed to the end of the nylon tubing and the low flow air pump was attached to the rear end of the carbon tube. The pump was activated to withdraw soil vapour at the required flow rate (0.2 L/m) through the carbon tube allow adsorption of VOCs onto the carbon tube.
- After 7 L of soil vapour was drawn through the carbon tube, the pump was switched off and the tube was removed from the sub-slab soil vapour probe, then sealed via application of two end caps and stored at room temperature for transportation to the laboratory; and
- At the completion of the sampling, all soil vapour probes were removed from the ground and the sample holes were reinstated with concrete, consistent with the surrounds.

Note: not all locations were sampled for laboratory analysis.

Samples were analysed in accordance with the laboratory schedule (refer to **Table 7.4**). Sample locations are shown on **Figure 5**. During development, purging and sampling, gas properties were noted on field forms.

7.4 Laboratory Analysis

JBS&G contract Eurofins MGT (Eurofins) as the primary laboratory, with Envirolab Services Pty Ltd (Envirolab) as the secondary laboratory. All laboratories were NATA registered for the required analyses. In addition, the laboratories were required to meet JBS&G's internal QA/QC requirements. The analytical schedule is presented in **Table 7.4**.

[30] *Technical Report No.23 Petroleum Hydrocarbon Vapour Intrusion Assessment*. Australia Guidance, July 2013, CRC for Contamination Assessment and Remediation of the Environment (CRCCARE 2013)

Table 7.4: Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil/Sediment	Soil Sample Locations 121 sample locations.	Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 164 samples Other Metals (aluminium, manganese, iron and cyanide (free)) – 22 samples PAHs – 159 samples TRH/BTEX – 117 samples Asbestos (500ml) – 130 samples + plus visual inspection PCBs – 75 samples OCPs - 79 VOCs – 56 samples SVOCs – 15 samples Cation Exchange Capacity (CEC), pH – 5 sample 28 PFAS (incl. PFOA, PFOS+PFHxS) – 25 sample TCLP/ASLP – 7 samples
	Sediment Sample Locations 10 locations	Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 10 samples PAHs – 10 samples TRH/BTEX -10 samples VOC – 9 samples OCPs/PCBs – 7 samples 28 PFAS (incl. PFOA, PFOS+PFHxS) – 4 samples Asbestos – 2 samples
Groundwater	Groundwater Monitoring Wells 7 new locations	Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 5 samples PAH (low levels) – 5 samples TRH/BTEX – 6 samples VOCs – 6 samples EC, pH, alkalinity – 5 samples Nitrate/Nitrite – 5 samples Nitrogens Speciated – 5 samples Ammonia – 5 samples 28 PFAS (incl. PFOA, PFOS+PFHxS) – 5 samples
Surface Water	Water Samples 8 locations	Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 8 samples PAHs (low levels) – 8 samples TRH/BTEX – 8 samples VOCs – 8 samples Nitrate/Nitrite – 8 samples Nitrogens Speciated – 8 samples Ammonia – 8 samples EC, pH, alkalinity – 8 samples TDS – 3 samples 28 PFAS (incl. PFOA, PFOS+PFHxS) – 5 samples
Soil Vapour	Carbon Tubes 22 locations	VOCs – 18 samples TRH – 18 samples Isopropanol – 18 samples

8. Assessment Criteria

8.1 Regulatory Guidelines

The investigation was undertaken with consideration to aspects of the following guidelines, as relevant:

- *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1)*, National Environment Protection Council (NEPC 2013);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition. NSW EPA, 2017 (EPA 2017);
- *Contaminated Sites: Sampling Design Guidelines*, NSW EPA, 1995 (EPA 1995);
- *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*, NSW EPA, 2020 (EPA 2020);
- *Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination,* NSW Department of Environment and Conservation March 2007 (DEC 2007);
- *Australia and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG 2018);
- *Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia, May 2009 (updated 2018).* Western Australia Department of Health (WA DOH), (WA DOH 2018);
- *Waste Classification Guidelines Part 1: Classifying Waste*. NSW EPA, November 2014 (EPA 2014a); and
- *PFAS National Environmental Management Plan (NEMP) (Version 2.0),* Heads of EPAs Australia and New Zealand (HEPA), January 2020 (HEPA 2020).

8.2 Assessment Criteria

8.2.1 Soil Assessment Criteria

The proposed development and ongoing use of the site is equivalent to a NEPC (2013) land use scenario of commercial/industrial (HIL D). Concentrations of contaminants in soil were compared against HILs and HSLs, and EILs and ESLs, as outlined below:

- HILs: HIL D – Commercial/Industrial;
- HSLs: HSL D – Commercial/Industrial (Clay/Sand – fine/coarse textured soils);
- EILs and ESLs: Commercial/Industrial (aged soils);
- Management Levels for Commercial/Industrial (Clay/Sand – fine/coarse textured soils) (NEPC 2013); and
- Aesthetic considerations as per NEPC (2013).

Previous investigations have identified fill materials to primarily comprise fine textured soils (clay), however noting the potential for variation in the composition of site fill materials which may comprise coarse textured soils (shale gravels/sands), consideration will be given to both criteria as applicable to the specific composition of sampled material.

Note, as a conservative measure consideration was given to ANZG interim sediment quality guidelines (ISQG) default guideline values (DGVs) for sediment analysis. Noting samples were collected from small man-made retention basins (not from the receiving natural freshwater environment) additional upper guidance values (GV-high) were adopted to provide an indicator of potential high-level toxicity problems within sediments in the assessment area.

A criterion of absence/presence (i.e. no visible) has been adopted for asbestos to achieve the objectives of the investigation. Aesthetics were also considered in the assessment of site suitability consistent with EPA (2017) and NEPC (2013).

Table 8.1 below details derived soil EILs as per NEPC (2013) guidance. Note, pH and CEC are calculated averages based on reported values (**Table A, Appendix B**) for the assessment area. All EIL values are in mg/kg unless otherwise specified.

Table 8.1 Derivation of Soil EILs

Physical Parameters	
pH (pH units)[5]	**CEC (meq/100g)[5]**
8.2	39
Investigation Levels	
	EIL
Contaminant	**Commercial and Industrial Land Use (mg/kg)**
Arsenic	160
Chromium (III)	420[6]
Copper	330[1]
DDT	640
Lead	1800
Naphthalene	370
Nickel	960[2]
Zinc	1900[3]

[1]Selected utilising the CEC value to determine the most conservative EIL.
[3] Selected based on the value for CEC.
[4] Selected based on value for pH and CEC resulting in the most conservative EIL.
[5] pH and CEC are based on an average reported value, noting fill and natural comprised silty clays. This is considered appropriate for the purposes of the investigation. Detailed results are provided in **Table A, Appendix A.**
[6] Based on a conservative assumption of 2.5 % clay content.

8.2.2 Groundwater and Surface Water Assessment Criteria

Groundwater and surface water analytical data evaluated as part of the site wide investigation has been compared against the following groundwater criteria:

- Criteria for species protection in freshwater ecosystems presented in ANZG (2018);
- Criteria for species protection of freshwater ecosystems presented in HEPA (2020);
- GIL for fresh water as presented in NEPC (2013);
- Groundwater Health Screening Levels, HSL D (vapour intrusion for clay 2-<4m) for specified VOCs;
- Groundwater Health Screening Levels, HSL D (vapour intrusion for clay 4-<8m) for specified VOCs; and
- Criteria for recreational water (factor of 10 times applied) as presented in NHMRC (as amended Oct 2017).

The nearest downgradient ecological receptor has been identified as Girraween Creek, located approximately 15 m north west of the site. As discussed in **Section 2** and **Section 3**, Girraween Creek is a highly disturbed urban drainage channel (pursuant to definitions provided in *Australia and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG 2018)), which has been significantly altered (evidenced by historic aerial photographs which indicate the creek alignment downgradient of the site has been re-directed/altered to facilitate construction of a regional flood detention basin). The freshwater stream is considered to likely receive road and stormwater runoff from surrounding land uses, which comprise a combination of commercial/industrial, agricultural and urban/residential activities.

Based on the above, concentrations of heavy metals/PFAS will be compared against the DGVs for 80% species protection for freshwater ecosystems, as presented in ANZG (2018) and HEPA (2020).

Consideration was given to groundwater investigation levels (GILs) for drinking water, as presented in NEPC (2013). Notwithstanding, GILs for drinking water were not considered applicable to the investigation outlined herein due to the reported saline nature of groundwater underlying the site and as such lack of beneficial re-use as potable water and/or re-use under the proposed redevelopment.

Consideration to criteria for 80 % species protection (ANZG 2018) was given to soil leachate assessment as an initial screen. Site-specific environmental risk criteria will be developed where/if appropriate.

8.2.3 Soil Vapour Assessment Criteria

The following soil vapour criteria has been adopted for the site based on the land use scenario:

- HSLs for petroleum hydrocarbons, sand as provided in the NEPC (2013); and
- Interim soil vapour HILs as provided in the NEPC (2013) for chlorinated hydrocarbons.

Where no NSW EPA endorsed thresholds exist for individual VOC concentrations, consideration was given to Regional Screening Levels for Commercial Air (US EPA 2020[31]).

8.2.4 Adopted Screening Levels

Where there are no NSW EPA endorsed thresholds for individual contaminants of concern the laboratory LOR was adopted as an initial screening value for the purposes of this assessment.

[31] https://semspub.epa.gov/work/HQ/199938.pdf US EPA dated May 2020, accessed 17 September 2020. (US EPA 2020)

9. Quality Assurance/Quality Control

An assessment of QA/QC was undertaken by calculation of DQIs for the data generated as part of the assessment activities.

Compliance with the pre-determined DQIs established for characterisation of the assessment area is discussed in **Appendix F** in relation to PARCCS parameters presented in **Section 7.1.6**.

The field sampling, inspection and handling procedures produced QA/QC results which indicated that the data set is of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results indicate that the project laboratories were generally achieving levels of performance within their recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the data set is of an acceptable quality upon which to draw conclusions regarding the environmental condition of the assessment area.

10. Results

The following sections summarise key findings, observations and analytical results obtained as part of the current investigation to address data gaps (**Section 5**) within the assessment area (**Figure 2a** and **Figure 2b**).

10.1 Field Observations

Fill Materials

Fill materials were encountered across the entire assessment area ranging from a thin (0.1 m) fill soil profile to 4.8 m in depth. Fill was notably deeper toward the north/north western extents of tiered material storage areas and thinner in areas of cutting into the hill slope (i.e. south of both Plant buildings). Fill generally comprised a combination of gravelly silty clays and lithic shale gravel, with variable inclusions igneous rock and lenses of gravelly sand/sandy clays noted, albeit to a limited extent.

Inclusions of brick (whole and fragmented) were broadly distributed within fill material across the assessment area, with areas of lower and higher concentrations noted. There was no discernible distribution to brick inclusions within the site fill profile and bricks are considered to be likely encountered throughout the fill profile (associated with former Boral Brick manufacturing). With the exception of brick, the majority of site fill materials were generally free from overt anthropogenic waste inclusions.

Fly ash, slag, sands and crushed concrete were noted in areas of raw material storage (stockpiled and/or discarded adjacent to material storage areas i.e. in the southern portion of the assessment area). Raw materials were generally free from foreign inclusions. Scattered waste (discarded Besser blocks/plastic) had been dumped within the first flush pit (**Figure 2b**) and significant volumes of waste material (discarded wooden pallets, plant/equipment, anthropogenic waste, truck tyres etc.) were observed on the site surface in the western portion of the assessment area.

Fragments of bonded ACM were identified in fill materials in the north west of the assessment area which appeared to have been utilised to establish site levels/features. ACM was observed in fill material forming an escarpment in the north west of the site and within fill associated with a retention wall/embankment surrounding the first flush pit (**Figure 2b**). The fill profile was generally distinguishable from other site fill material with notable inclusions of scrap metal waste, elevated concentrations of whole brick, concrete and igneous rock. The fill profile was generally observed to an approximate average depth of 2 m bgs. Approximately between 4,000 m^3 and 8,000 m^3 of ACM and anthropogenic waste impacted fill materials are anticipated to be present within this location (depending on the extent of impact underlying current roadways/hardstand).

A distinct fill profile comprising an orange/brown silty clay containing concentrated scrap metal, porcelain, glass, rubber (tyres) and ACM was identified within the assessment area to maximum depth of 1.3 m bgs (JB14) adjacent to Lot 63, consistent with fill previously reported in Lot 63. Impact was generally surficial (0.1 m), with notably deep fill isolated to two areas (JB14-JB15 and JB22A). Based on field observations, there is estimated to be approximately 150 m^3 of material impacted with ACM and anthropogenic waste within the assessment area adjacent to Lot 63.

Detailed investigation did not identify the presence of building waste and/or evidence of buried asbestos lagging within the southern portion of the assessment area, in an area of formerly reported buried asbestos waste (**Section 4**).

Chemical/Hydrocarbon Storage

Current and former chemical/hydrocarbon use and/or storage areas were identified at the site, as outlined in **Section 2.2** and as identified during previous investigations (**Section 4**). As part of the current investigation, ground penetrating radar (GPR) was utilised to identify the location and

orientation of former UPSS infrastructure within the assessment area. A former diesel AST (in vicinity of the brickworks office) was identified adjacent to the current driveway underlying a newly constructed brick wall. Soils in vicinity of the UST were not identified to be odorous or stained (with the exception of slight chemical odours in shallow soil at JB31, unlikely to be associated with the former diesel UST), noting the position of the tank (partially underlying a current brick wall/pavers) precluded detailed investigation of soils in immediate vicinity of the UST.

PID readings ranged from 0.0 ppm to 32.2 ppm (JB93), with elevated readings noted in vicinity of current/former hydrocarbon/petroleum storage areas. Isolated areas of odorous and/or stained soils were noted immediately below hardstand pavement at four locations, JB31 0.05-0.1, JB63 0.1-2.0, JB93 0.4-2.0 and JB105 0.05-0.1 in vicinity of chemical/hydrocarbon storage/use. Strong odorous were generally limited to surface soils at two locations (JB63 and JB93) toa maximum depth of 2.0 m bgs.

Natural Material

Natural soils were encountered underlying fill materials at all borehole locations, and at the majority of test pit locations (where access restrictions/deep fill were not encountered). A red-brown gravelly silty clay/clayey silt was identified in the southern portion of the site, overlying weathered dolerite bedrock. Weathered dolerite bedrock was identified at shallow depths and/or directly underlying hardstand pavement where site levels had been cut into the existing hillslope in the southern portion of the assessment area (JB29, JB24, JB101, JB102, JB103 etc.).

Red/brown residual mottled silty clay/clayey silt was identified underlying fill material and directly underlying hardstand pavement (in isolated areas of cutting i.e. JB63 underlying Plant 1) in the northern portion of the assessment area. Fine silty sandstone and shales were identified at depths of between 2.9 m (JB86) and 9.0 m bgs (JB66) in the northern portion of the assessment area.

Groundwater Seepage

Groundwater seepage was generally not encountered at any borehole/test pit location. Saturated soil was encountered at a depth of between 6-9 m bgs during the installation of groundwater monitoring wells. Perched groundwater seepage was noted at 2.5 m bgs in fill material at one location (BH85/MW04).

10.2 Analytical Results – Soil/Sediment

The following sections provide a summary of analytical results pertaining to the assessment area. Exceedances of assessment criteria presented in **Section 8** are shown in **Table A** (**Appendix B**) and on **Figures 7A**.

Laboratory certificates of analysis are included in **Appendix G**.

10.2.1 Heavy Metals

All concentrations were below the adopted human health assessment criteria. Six soil samples reported total chromium concentrations (refer to **Table A**, **Appendix B**) above the adopted ecological assessment criteria, between 430 mg/kg (JB24 2-2.1) and 850 mg/kg (JB20 0.2-0.3), exceeding the adopted criterion of 420 mg/kg. Hexavalent chromium was reported below the laboratory LOR for two samples (JB20 and JB84) which reported the highest total concentrations chromium (above 800 mg/kg).

Several sediment samples reported concentrations of nickel and zinc (refer to **Table A**, **Appendix B**) above the adopted conservative GVs for freshwater ecosystems.

10.2.2 VOCs/SVOCs

All concentrations were below the adopted human health and ecological assessment criteria. The following samples reported volatile concentrations above the laboratory limit of reporting (LOR):

- Sample JB11 1-1.1 with a concentration of 1,3,5-trimethylbenzene of 0.5 mg/kg; and
- Sample JB10 2-2.1 and JB11 1-1.1 with concentrations of total monocyclic aromatic hydrocarbons (MAH) of 1.1 mg/kg and 2.4 mg/kg, respectively.

10.2.3 TRH/BTEX

All concentrations were below the adopted human health, management limit and ecological assessment criteria with the exception of the following:

- Sample JB63 0.1-0.2 with a concentration of TRH >C_{16}-C_{34} fraction of 9,300 mg/kg, exceeding the adopted ESL (2,500 mg/kg); and
- Sample QA20200905-1 (parent sample JB93 0.4-0.5) with a concentration of >C_{10}-C_{16} less naphthalene (F2) of 180 mg/kg, marginally exceeding the adopted ESL (170 mg/kg).

10.2.4 Phthalates

Sample JB63 0.1-0.2 reported a concentration of Bis(2-ethylhexyl) phthalate of 1.3 mg/kg, above the laboratory LOR. All other samples reported concentrations below the laboratory LOR.

10.2.5 PAHs

All concentrations were below the adopted human health and ecological assessment criteria.

10.2.6 OCP/PCBs

All concentrations were below the adopted human health, management limit and ecological assessment criteria and/or the laboratory LOR.

10.2.7 Cyanide (free)

Cyanide (free) concentrations were below the laboratory LOR for all samples submitted for analysis.

10.2.8 PFAS

All concentrations were below the adopted human health and ecological assessment criteria and/or the laboratory LOR.

10.2.9 Asbestos

All concentrations were below the adopted HSL for asbestos in soils and the laboratory LOR with the exception of the following:

- Sample JB95 0.9-1.0 with an AF/FA concentration of 0.0171 % w/w, exceeding the adopted AF/FA HSL criterion for asbestos in soil of 0.001% w/w; and
- Sample PT2-6 with an asbestos fines/fibrous asbestos (AF/FA) concentration of 0.0011% w/w, exceeding the adopted AF/FA HSL criterion of 0.001% w/w.

JBS&G note sample P2-S01 collected as part of JBS&G (2020c) reported the presence of AF/FA in accumulated sediment within a stormwater alignment adjacent to downpipes affixed to Plant 2. Additional samples (DR-1 and DR-2) collected from sediment accumulated in overflow stormwater channels in vicinity/downgradient of Plant 2 did not report the presence of asbestos.

As discussed in **Section 10.1** fragments of bonded ACM were identified within two distinct fill profiles at the following locations.

<u>ACM Adjacent Lot 63 (615A Great Western Hwy):</u>

- JB13 – 0.1-0.12 m bgs;
- JB14 – 0.2-1.3 m bgs;
- JB14A –0.15-0.6 m bgs;

- JB15 – 0-1.0 m bgs;
- JB17 0-0.1 m bgs:
- JB20 – 0-0.1 m bgs;
- JB22A – 0-0.1 m bgs;

ACM in North West of the Site:

- JB53 – 1-1.1 m bgs;
- JB54 – 0.3-0.4 m bgs;
- JB94 – 0.1-0.2 m bgs;
- JB96 – 0.1-0.2 m bgs; and
- JB98 – 0.5-0.6 m bgs.

Representative fragments submitted to the laboratory for confirmatory analysis reported that materials comprised bonded ACM (chrysotile, amosite and crocidolite asbestos detected).

10.2.10 TCLP and Preliminary Waste Classification

Analytical leachate results are provided in **Table B** (**Appendix B**). TCLP test results for fill samples analysed for metals and/or PAHs indicated site fill materials are provisionally classified as general solid waste (GSW) classification. Where asbestos is present, materials are anticipated to be classified as GSW/Special (asbestos). Notwithstanding, formal classification will be required in accordance with EPA (2014) prior to disposal of any material from the site.

Natural soils underlying fill materials (excluding areas of odours/hydrocarbon impacts) are anticipated to be classifiable as VENM, as per the definition provided in the POEO Act (1997).

10.2.11 ASLP

ASLP analysis was conducted on fill samples which reported the highest heavy metal/PAH concentrations. Leachable concentrations of PAHs were reported below the laboratory LOR. Reported leachable heavy metal concentrations were generally low with moderate leachability of chromium (1.5 mg/L) reported at sample JB84 1.4-1.5 in natural underlying silty clays.

Whilst reported ASLP concentrations were noted to marginally exceed the adopted groundwater criteria for freshwater species protection (ANZG 2018), with consideration to the groundwater/surface water analytical data (**Section 10.4**), moderately leachable concentrations of some heavy metals are considered not to represent a significant potential leachate risk to groundwater nor represent a risk to ecological receptors the site.

10.3 Field Observations – Groundwater/Surface Water

Stabilised groundwater parameters as measured in the field prior to the collection of groundwater samples during the groundwater monitoring event (GME) are presented in **Table 8.1**.

Table 10.1 Groundwater Parameters

Well ID	DO (mg/L)	EC (µs/cm)	pH	Redox (mV)	Temperature (°C)
MW01	0.12	5657	6.75	89.8	19.7
MW02	0.71	1106	6.89	90.3	17.3
MW03	0.63	584	6.90	584	105.1
MW04	Grab sample only[1]				
MW05	Dry				
MW06	0.63	14356	6.47	109.8	21.4
MW07[2]	2.30	5563	7.65	116.8	22.2

[1] Grab sample collected via disposable bailer due to small volume of accumulated water

[2] MW07 = parameters obtained from grab sample due to equipment failure.

Groundwater was generally observed to be slightly turbid (brown) to clear/colourless. No odours or sheen were observed at any groundwater monitoring location. Standing groundwater levels were reported at between 3.920 m below top of casing (btoc) (MW02) and 8.437 m btoc (MW01). Monitoring well MW05 was advanced within igneous bedrock to a depth of 9 m bgs and was notably dry at the time of sampling.

Based on the survey and depth to groundwater as measured as part of the assessment herein the inferred groundwater flow direction at the site is from the south towards the north, with an approximate hydraulic gradient of 0.052 m/m (refer **Figure 6**). This inferred flow direction differs slightly to the expected overland flow direction which is anticipated to be toward the north west (following the topographic gradient).

Surface water collected from a series of settling ponds were observed to generally be clear/colourless with the exception of moderately turbid/brown water observed at sample location JBSW-03. No odours or sheen were noted at any sample location.

10.4 Analytical Results – Groundwater/Surface Water

The following sections provide a summary of analytical results pertaining to the assessment area for the current investigation. Exceedances of assessment criteria presented in **Section 8** are shown in **Table C** (**Appendix B**) and **Figure 7B**.

Laboratory certificates of analysis are included in **Appendix G**.

10.4.1 Heavy Metals

Heavy metals were reported below the adopted criteria with the exception of:

- Copper concentrations of 0.003 mg/L in surface water (JBSW-01, JBSW-03, JBSW-04, JBSW-07) and 0.005 mg/L (JBSW-08) exceeding the adopted freshwater water criterion of 0.0025 mg/L;
- Zinc concentrations of 0.048 mg/L in surface water (JBSW-04) and 0.073 mg/L (JBSW-07), exceeding the adopted freshwater criterion of 0.031 mg/L;
- Copper concentrations of 0.003 mg/L in groundwater (MW07) exceeding the adopted freshwater water criterion of 0.0025 mg/L; and
- Zinc concentrations of 0.047 in groundwater (MW07), exceeding the adopted freshwater criterion of 0.031 mg/L.

10.4.2 VOCs/SVOCs

All VOCs/SVOCs were reported below the adopted criteria and/or below the laboratory LOR.

10.4.3 TRH/BTEX

BTEX/TRH were reported below the adopted criteria and/or below the laboratory LOR at all groundwater monitoring well and surface water sampling locations.

10.4.4 PAH

PAHs in the analysed groundwater/surface water samples were reported at concentrations less than the laboratory LORs.

10.4.5 PFAS

PFAS were reported below the adopted criteria and/or below the laboratory LOR at all groundwater monitoring well and surface water sampling locations.

10.4.6 Non-metallic Inorganics

All concentrations were reported below the adopted criteria (where applicable) and/or below the laboratory LOR.

10.5 Soil Vapour Field Parameters and Observations

As discussed in **Section 7.3.3** the assessment works comprised installation of 22 targeted sub-slab soil vapour points, sample collection, and subsequent laboratory analysis of 19 samples for VOC, TRH, BTEX and leak detection.

During purging, oxygen levels were found to range from 0.1 % (VP07) to 21.2 % (VP10), PID ranged from 0.0 ppm to 24.0 ppm (VP01), CO_2 ranged from 0 % to 6.1 % (VP22), methane was detected at two locations, between 1 % (VP06) and 5.7 % (VP07) in vicinity of hydraulic oil pump houses.

The pavement (concrete and/or asphalt) generally ranged in thickness from approximately 0.1 m to 0.4 m and was noted to be in good repair.

10.6 Soil Vapour Analytical Results

The following sections provide a summary of analytical results pertaining to the assessment area. Detailed results are presented in **Table D** (**Appendix B**).

Laboratory certificates of analysis are included in **Appendix G**.

10.6.1 TRH

All concentrations of TRH were below the adopted assessment criteria and/or laboratory LOR.

10.6.2 BTEX

All concentrations of BTEX were below the adopted assessment criteria and/or laboratory LOR.

10.6.3 VOCs

All concentrations of VOCs were below the adopted assessment criteria and the laboratory LOR.

10.6.4 Naphthalene

All concentrations were below the adopted criterion and the laboratory LOR.

10.6.5 Leak Detection (isopropyl alcohol)

All concentrations were below the adopted assessment criteria and the laboratory LOR.

11. Discussion

The following sections provide a summary of analytical results pertaining to the DGI conducted to address identified data gaps for the assessment area as outlined herein and provides an evaluation of the site wide data set with regard to identified contamination, as presented in JBS&G (2020a). Detailed results obtained as part of the investigation outlined herein, and historical data are shown in accompanying summary results tables (**Appendix B**).

11.1 Are There Any Unacceptable Risks from Soil/Sediment?

Fill materials were generally reported/encountered across the entire assessment area ranging from a thin (0.15 m) fill soil profile to 4.8 m in depth. Fill was notably deeper toward the north/north western extents of tiered material storage areas and thinner in areas of cutting into the hill slope (i.e. south of both Plant buildings).

Site wide fill materials are considered to the present due to a combination of historical land use activity (regional quarrying/manufacturing) and soil importation to establish levels. Fill materials were noted to generally comprise gravelly silty clays/sandy clays and crushed lithic shale gravel with varied inclusions of bricks, minor concrete and igneous rock. In areas, sand/sandy gravel horizons were encountered albeit limited in extent (associated with raw materials i.e. sands/fly ash/slag etc).

Inclusions of brick (whole and fragmented) were noted to be broadly distributed across the site, with areas of lower and higher concentrations. There was no discernible distribution to brick inclusions within the site fill profile and bricks are considered to be likely encountered throughout the site fill profile (associated with former Boral Brick manufacturing).

As part of the investigation outlined herein, soil sample locations were advanced to target identified data gaps (**Section 5**), including the assessment of a range of COPC (including but not limited to PFAS, VOCs, SVOCs etc.) in areas of no/limited previous investigation (i.e. adjacent to former/current hydrocarbon/chemical storage and targeting deep fill materials). No soil samples submitted for analysis reported concentrations of chemical constituents above the adopted human health criteria.

The assessment outlined herein included assessment of soil physiochemical parameters such as pH and CEC to enable appropriate consideration of potential ecological risks consistent with current NEPC (2013) guidelines. In isolated areas, concentrations of heavy metals and TRH (at one location (JB93 0.4-0.5)) were reported above the adopted ecological criteria generally consistent with the broader site data set (**Table E, Appendix B**). The reported heavy metal concentrations are considered to be reflective of urban environments and of the underlying lithology (comprising ultramafic igneous rock (dolerite/picrite) and Bringelly Shale), which contain naturally occurring heavy metal concentrations. Elevated total chromium concentrations were identified to not contain hexavalent chromium and are considered to be associated with natural igneous ultramafic rock underlying the southern portion of the site.

One historic sample location (SS05, **Figure 3**) reported a concentration of B(a)P in exceedance of the adopted ecological criteria. NEPC (2013) states that plants grown in PAH impacted soils have only limited ability to take up and incorporate anthropogenic PAHs through their roots and into their biomass, especially those PAHs with higher molecular weights including B(a)P. As such, and with consideration to the proposed land use (commercial/industrial), with the majority of the site surfaced in hardstand pavement with future flora to be established in suitably imported growing media/landscaped garden beds, JBS&G consider that minor exceedances of the adopted ecological criterion for B(a)P at one location and isolated elevated concentrations of heavy metals in soils do not represent an unacceptable risk to ecological receptors at the site.

One sample location, JB63 0.1-0.2 reported a concentration of TRH C_{16}-C_{34} in exceedance of the adopted management limits for petroleum hydrocarbons (commercial/industrial, NEPC 2013). Concentrations of bis(2-ethylhexyl) phthalate were also reported above the laboratory LOR at this

location, indicating the contamination source is likely motor oil/hydraulic oil associated with internal plant/machinery located within Plant 1. Impacts were notably constrained to the top two metres of soil and are unlikely to pose a risk to groundwater (noting no elevated TRH was reported within groundwater/surface waters in the assessment area). TRH exceeding the adopted management limits are considered not to represent an unacceptable risk to site receptors, noting strong odours at this location are considered to pose an aesthetic issue and will require remediation/management (**Section 11.6**)

JBS&G consider the potential remains for isolated hydrocarbon impacts in soil (surface and at depth) in vicinity of former UPSS identified within the assessment area, noting the built form precluded detailed inspection of soil in close proximity to the UST.

Asbestos Impacted Fill Material

Fragments of bonded ACM were identified in fill materials in the north west of the site which appeared to have been utilised to establish site levels/features. ACM was observed in fill material forming an escarpment in the north west of the site and within fill forming a retention wall/embankment surrounding the first flush pit (**Figure 2b**). The fill profile was generally distinguishable from other site fill material with notable inclusions of scrap metal waste, elevated concentrations of whole brick, concrete and igneous rock. One sample location, JB95 0.9-1.0 reported elevated concentrations of AF/FA exceeding the adopted health criterion.

Bonded ACM impacted fill material in the north western portion of the assessment area was identified in established embankments/exposed slopes of filled/elevated portions of the site. As such, the potential remains for additional fill material to be present underlying established roadways/hardstand pavement (material storage areas) in vicinity of the identified impact. Given the operational nature of the site, a detailed visual inspection of fill material underlying areas of hardstand pavement in this area was not undertaken (i.e. limited to advancement of boreholes, no test pitting). Notwithstanding, these areas have been subject to multiple phases of previous investigation which did not identify the presence of ACM in site fill materials underlying material storage areas. JBS&G consider there is the potential for further ACM/anthropogenic waste impacted fill material within this portion of the site (underlying hardstands). As such, JBS&G recommend fill materials in vicinity of the impact identified herein be subject to inspection for the presence of aesthetic impacts and/or ACM as part of future redevelopment/remedial activities.

A distinct fill profile (previously identified on Lot 63), comprising an orange/brown silty clay containing concentrated scrap metal, porcelain, glass, rubber (tyres) and ACM was identified within the assessment area to maximum depth of 1.3 m bgs (JB14) adjacent Lot 63. Impact was generally reported to be surficial (0.1 m bgs) with areas of deeper fill noted (JB14-JB15 and JB22A). Based on field observations made during the DGI outlined herein, it is estimated there is approximately 150 m^3 of material adjacent to Lot 63 impacted with ACM considered to pose a health risk and anthropogenic inclusions considered to pose an aesthetic issue (pursuant to NEPC 2013) within the assessment area, which will require remediation and/or management. JBS&G (2020a) reported the distinct profile to also be present within the broader site, adjacent to the southern boundary of Lot 63, with an additional volume of approximately 200 m^3 of bonded ACM/anthropogenic waste impacted fill material and 15 m^3 of AF/FA impacted material (sample location HA03) requiring remediation and/or management.

JBS&G note a portion of Lot 63 in DP 752051 has been remediated for commercial/industrial land use, unencumbered by any environmental planning instrument (i.e. EMP). The DSI (JBS&G 2019b), RAP (JBS&G 2019c) and the remediation/validation works (upon completion) have been/will be subject to NSW EPA Site Auditor review and a Site Audit Statement (SAS) will be prepared for this portion of the site to ensure the area is suitable for commercial/industrial land use. It is understood following remediation, approximately 30 m^3 of asbestos impacted fill material will remain within the

lot boundary adjacent/underlying an existing high voltage power pole following remediation of the site and will require remediation/management.

Coffey (2013) identified an isolated fragment of bonded ACM at BH8 0-0.2 (**Figure 3**) in exposed soil adjacent to the south east of Plant 2 which was considered likely to be associated with fallout from hazardous building materials affixed to the building (ACM roofing). As part of the current investigation, one sample location (PT2-6) advanced within a small earthen garden bed adjacent to the north east of Plant 2 reported a concentration of AF/FA in surface soils in exceedance of the adopted human health criterion. It is noted the HAZMAT report (JBS&G 2020c) identified asbestos impacted dust/sediment atop hardstand pavement within vicinity of Plant 2 which will also require remediation/management prior to demolition of existing structures. Whilst additional sediment sampling did not identify asbestos within overland on-site drainage easements down gradient/adjacent to Plant 2, with consideration to identified friable asbestos impacts (JBS&G 2020c) identified in accumulated sediment adjacent to Plant 2, JBS&G consider sediments which may have accumulated in on-site drainage pits within vicinity of Plant 2 to be potentially impacted with asbestos.

Further, JBS&G (2020a) concluded the potential remains for redundant service infrastructure which may comprise ACM to be present within a former service alignment in the south west of Lot 107.

JBS&G consider the identified asbestos impacts (bonded and non-bonded) to represent an unacceptable human health risk requiring remediation/management.

No evidence of buried asbestos waste (lagging) or building/demolition waste was identified during detailed intrusive investigation in an area of historic asbestos burial (adjacent to a former disused shed) as part of the DGI outlined herein.

Sediment

Sediment samples were collected from a series of engineered retention/settling ponds within the assessment area as part of the investigation outlined herein. As a preliminary screen, samples were compared against relevant GVs for freshwater ecosystems (ANZG 2018). Relatively few samples reported concentrations of heavy metals and TRH above the adopted GVs (high), as shown on **Figure 7A** and in analytical summary tables (**Appendix B**).

JBS&G note the adopted criteria have been established for sediments within natural freshwater environmental settings. As the sediment samples were collected from within engineered settling ponds/water basins external to the downgradient receiving environment (Girraween Creek), noting the underlying geology of the site comprises igneous rock and Bringelly shale, sediments are considered likely to contain elevated heavy metal concentrations as associated with natural background conditions and/or as to be expected in urban settings. TRH concentrations are considered likely associated with the presence of concentrated organic material within deposited sediments, and in the general absence of elevated TRH concentrations in surface waters/soil at the site, are likely naturally occurring and not associated with manufactured petroleum products.

All sediment samples reported concentrations of COPC below the adopted land use criteria for soil, pursuant to NEPC (2013) for commercial/industrial land use. As such, the minor exceedances of the conservative DGVs for sediments are considered not to represent an unacceptable risk to onsite or potential offsite ecological receptors, nor require remediation and/or management, noting Girraween Creek is considered to be a highly urbanised/disturbed tributary and not an ecologically sensitive environment.

11.2 Are There Any Unacceptable Risks from Background Soil Concentrations?

Soil samples collected from natural material indicated contaminant concentrations are generally consistent with background environmental conditions, including heavy metal concentrations for Sydney and NSW as documented in Olszowy et. al. (1995), and reflective of the underlying lithology

(including ultramafic igneous rocks). On this basis there are considered to be no outstanding issues in relation to local area background contaminant concentrations.

11.3 Are There Any Unacceptable Risks from Groundwater/Surface Water?

The additional targeted groundwater/surface water assessment implemented as part of the DGI outlined herein did not identify the presence of elevated concentrations of COPC in exceedance of the adopted health criteria.

Groundwater was not encountered in the southern portion of the site to depths of between 8 and 10 m bgs in monitoring wells advanced within igneous bedrock. Groundwater hosted in underlying igneous rock is anticipated to be present within cracks/joints at significant depths. Shallower groundwater was noted within the northern portion of the site (the assessment area) including shallow seepage observed in site fill material at isolated locations. A deeper unconfined aquifer was identified within underlying Bringelly Shales, which was inferred to flow toward the north (toward Girraween Creek).

Heavy metal concentrations, specifically copper and zinc were reported in groundwater and surface waters to marginally exceed the adopted criteria for 80 % species protection in freshwater ecosystems (ANZG 2018). The reported concentrations were generally consistent with previous limited investigations conducted by others (JBS&G 2020a). Given the underlying geology of the site (igneous rock/Bringelly Shale), heavy metals in surface/groundwater are likely associated with natural background conditions and/or as to be expected in urban/industrial settings. Reported concentrations were generally reported to be consistent across the assessment area (up and down gradient of the site) and are considered to be representative of regional groundwater conditions.

The targeted investigation conducted herein, which included assessment of groundwater/surface water for a range of COPC did not identify indication of significant hydrocarbon/chemical contamination which may be migrating onto the site, down gradient of petroleum/chemical use/storage areas or downgradient of the site.

Based on the above, and noting Girraween Creek is considered to be a highly urbanised tributary and not an ecologically sensitive environment, the minor exceedances of the adopted ecological criteria in surface/groundwater are considered not to represent an unacceptable risk to onsite or potential offsite ecological receptors.

11.4 Are There Any Unacceptable Risks from Soil Vapour?

Based on the results of the assessment, contaminants in soil vapour beneath the assessment area are considered not to represent an unacceptable risk.

11.5 Are there any Chemical Mixtures?

While a range of chemical mixtures are present within the assessment area, they are not considered to pose a significant contamination issue that will not be addressed by management/remediation requirements as required based on individual contaminant concentrations

11.6 Are there any Unacceptable Aesthetic Issues?

Aesthetic impacts identified within the assessment area are shown on **Figure 7C**. Inclusions of brick (whole and fragmented) were noted to be broadly distributed across the site, with areas of lower and higher concentrations. There was no discernible distribution to brick inclusions within the site fill profile and bricks are considered to be likely encountered throughout the site fill profile (associated with former Boral Brick manufacturing).

NEPC (2013) consider inert waste, such as bricks, to not pose an unacceptable aesthetic issue, and JBS&G concur with this for the assessment area, particularly under the proposed commercial/industrial land use. Notwithstanding, given the ubiquity of brick inclusions within site fill, noting some areas have been identified to contain a higher relative concentration of brick (e.g.

JB12), consideration should be given to the end use (re-placement) of fill material containing brick, should materials be proposed for beneficial re-use under the proposed redevelopment (e.g. not placed in areas readily accessed by future site users (i.e. landscaped garden beds)).

Extraneous waste materials have been identified in isolated areas of the site which are considered to pose an aesthetic issue (pursuant to NEPC 2013) under the proposed commercial/industrial land use (in the north west of the site and adjacent to Lot 63). Waste materials include large inclusions of concrete, tyres, discarded plant/equipment, plastic waste and those which pose a potential risk of physical harm (i.e. scrap metal/elevated concentrations of glass etc.). Anthropogenic wastes have been generally identified to be co-mingled with ACM fragments and will require remediation/management.

Aesthetic impacts relating to odours were identified both within fill materials and natural soils in proximity to hydrocarbon/chemical use and/or storage and manufacturing areas. These soils do not present an unacceptable health risk to site users, however odorous soils can be expected to be encountered during demolition/redevelopment of the site. Four locations reported chemical/odorous soils at the site (JB31, JB63, JB93 and JB105). NEPC (2013) suggests minor odours may not pose an aesthetic issue, as such, only moderate/strong odours identified at JB63 and JB93 are considered to pose an aesthetic issue under the proposed commercial/industrial land use which will require management/remediation.

In addition to areas of odorous soils as outlined in **Figure 7C**, localised areas of odorous and potentially stained soils are anticipated to be encountered in vicinity of the former diesel UST (and associated infrastructure) adjacent to the former brickworks office, and in vicinity of a former diesel AST located in the western portion of Plant 1 (in vicinity of elevated PID readings and low level TRH in vapour at sample location VP01). As such, site excavation works should be informed of the potential for such conditions and when encountered, appropriate separation of such materials should be undertaken to appropriately manage/remediate odorous soils.

11.7 Is there any evidence of, or potential for, migration of contaminates from the site?

The potential for migration of contaminants across the majority of the site was considered to be low, based on the following:

- COPC were generally identified to be in solid form (asbestos and heavy metals);
- Migration through subsurface groundwater infiltration is considered to be greatly reduced by the underlying natural silty clays and substantially limited under the redevelopment plan presented in **Appendix A**, comprising hardstand pavements across the majority of the site;
- The migration of ACM and/or fibrous asbestos is unlikely where identified within *in-situ* fill material (in the absence of ground disturbance);
- The absence of significant contaminant impacts in groundwater and surface waters, noting surface waters discharging from the site were not identified to be significantly impacted, and in the absence of identified contamination in groundwater down gradient of petroleum/chemical storage areas; and
- The absence of identified contaminant impacts in subsurface soil below impacted fill material.

A moderate potential for the migration of contaminants was identified where ACM impacted surface soils may be present surrounding existing site infrastructure (albeit to a limited extent, noting ACM was limited to surface soils surrounding site infrastructure at one location (BH8, Coffey (2013)). No elevated COPCs were reported in surface waters or sediments within a series of surface water settling ponds which discharge from the site in the north west (**Figure 2b**).

Chromium at one location reported moderate leachability potential from natural clay. Notwithstanding, in the absence of elevated chromium concentrations within surface water/groundwater, moderately leachable concentrations of chromium are not considered to be migrating through the soil profile at significant concentrations. Based on the surface water and sediment data presented as part of the investigation outlined herein (**Table B, Appendix B**) and discussed above, the potential for migration of potential contamination from the site via settling ponds is considered to be low in the absence of identified gross or widespread contamination and with consideration to the reported contaminant concentrations being generally acquiescent with urban background concentrations.

11.8 Is a Site Management Strategy Required?

As outlined in **Section 11.1**, areas of asbestos contamination have been identified at the site which will require remediation and/or management.

JBS&G note that there is UST infrastructure present at the site, and the status of formal abandonment in accordance with relative regulatory guidance is uncertain. With reference to the *UPSS Technical Note: Decommissioning, Abandonment and Removal of UPSS* (NSW EPA 2010), the EPA's preference is for USTs to be removed and appropriately validated, as "tank removal and remediation of any residual contamination decreases environmental and OH&S risks at UPSS sites, which reduces the liability of the person responsible for the site and/or its owner while increasing potential future land-use options" (NSW EPA 2010). However, where UPSS removal is not possible (due to safety/structural limitations), "the disused UPSS should be emptied and decommissioned in situ by filling the tank with a concrete slurry, sand or foam" (NSW EPA 2010). Confirmation as to the status of the remaining UST infrastructure should be sought and documented to ensure compliance with relevant regulatory guidance.

Based on the findings of this investigation, it is considered the assessment area can be made suitable for the intended commercial/industrial use subject to the preparation of a RAP to address the identified impacts without ongoing management.

12. Conclusions and Recommendations

12.1 Conclusions

Based on the scope of work completed for this DGI including the findings of previous investigations and subject to the limitations in **Section 13**, the following key findings for the site are presented:

- The site has historically been utilised for a combination of commercial and light industrial activities associated with regional quarrying and manufacturing and has been subject to significant ground disturbance. Following cessation of large-scale quarrying activities, the northern portion of the site has continued to be utilised for masonry/manufacturing activities (Austral Masonry) with the southern portion utilised for commercial (Boral Offices) and vacant land (Council depot/stockpiling yard);
- Review of site history information presented by JBS&G (2020a) and outlined herein as part of the DGI identified potential AECs (**Figure 4**) and associated COPC related to current and/or former potentially contaminating land uses including a range of commercial/industrial activities;
- Part Lot 63 DP 752051 has been subject to remediation and validation (as part of the sales contract between ISPT and Council) to make the site suitable for commercial/industrial land use without the requirement for ongoing management);
- Investigations, when combined are considered to have generally satisfied the sampling density requirements as per EPA (1995) and NEPC (2013);
- Fill is present across the majority of the site to depths of between 0.1 m and 4.8 m bgs and was noted to comprise a combination of sandy gravelly clays and reworked natural materials (shales/dolerite). General site fill materials have been identified to contain brick to varied degrees which may pose an aesthetic issue. As part of redevelopment works, consideration should be given to the end-use (placement) of fill material co-mingled with brick (in accordance with aesthetic considerations presented in NEPC (2013));
- Soil sampling did not identify the presence of chemical COPC above the adopted health criteria across the site;
- Heavy metal concentrations at several locations and B(a)P/TRH identified at two isolated locations were reported in soil to exceed the adopted ecological criterial for the site. Heavy metal, B(a)P and TRH exceedances were generally considered to be associated with historical land use activities and/or natural background conditions (ultramafic igneous rocks). The reported concentrations were not considered to represent an unacceptable ecological risk under the proposed redevelopment scenario;
- Sediment assessment identified low level heavy metal and TRH concentrations exceeding the conservative ecological GVs (ANZG 2018) for freshwater species protection at relatively few locations. Low level TRH concentrations were considered likely to be naturally occurring (accumulated organics) with heavy metals reflective of the underlying geology (ultramafic rock). Noting the assessment criteria applies to natural environmental settings, minor heavy metal/TRH exceedances reported in sediment from manmade settling/retention ponds were considered not to represent an unacceptable risk to ecological receptors at the site;
- No buried asbestos was identified in vicinity of a former disused shed;
- Asbestos impacted fill materials have been identified at isolated locations at the site, which will require remediation and/or management, including:
    - Bonded ACM was identified within fill materials in the north west of the site, co-mingled with building and demolition waste (brick/concrete), scrap metal and

igneous rock. Based on the additional investigation outlined herein, it was estimated there is between approximately 4,000 m^3 and 8,000 m^3 of bonded ACM impacted fill material and 150 m^3 of AF/FA impacted fill material at one location (JB95 to a depth of 2 m bgs) in the north west of the site;

- A distinct fill profile (previously identified on Lot 63) has been identified extending beyond the Lot boundary to other areas of the site, albeit to a limited extent. It is estimated there is approximately 350 m^2 of bonded asbestos impacted soil and 15 m^3 of friable asbestos impacted soil (AQ13) adjacent to Lot 63;
- Approximately 30 m^3 of asbestos impacted fill material remains within the Lot 63 boundary, adjacent to/underlying an on-site high voltage power pole;
- Asbestos impacted soil has been identified in garden beds adjacent to Plant 2 (associated with fallout from hazardous building materials affixed to existing structures. Bonded ACM was identified at one location (BH8) to the south east of Plant 2, and approximately 5 m^3 of AF/FA impacted surface soils were identified exceeding the adopted health criteria identified at one location (PT2-6) north east of Plant 2. Potential remains for asbestos impacts in accumulated sediment within drainage pits/infrastructure (if present) in close vicinity of Plant 2; and
- Asbestos previously identified at the site surface in the southern portion of Lot 107 (JBS&G 2019a) was subsequently removed as part of make safe works (JBS&G 2019c), based on previous investigations the potential remained for further ACM to be present within a former service easement within the southern portion of Lot 107.

- Detailed surface water and groundwater investigations did not identify gross or widespread contamination. Low level heavy metal concentrations reported above the adopted ecological site criteria are considered reflective of regional background conditions as to be expected in urban/industrial environments and are not considered to represent an unacceptable risk at the site or to downgradient disturbed natural environments (Girraween Creek);
- Targeted soil vapour assessment did not identify the presence of vapours underlying the site considered to pose an unacceptable vapour intrusion/human health risk;
- Gross anthropogenic waste materials identified in fill at isolated locations are considered to pose an unacceptable aesthetic issue and will require remediation and/or management;
- Odorous soils were identified at four locations (JB31, JB63, JB93 and JB105) to an approximate maximum depth of 2.0 m bgs. Strong to moderate odours at JB63 and JB93 are considered to pose an aesthetic issue and will require remediation and/or management under the proposed commercial/industrial land use;
- A concentration of TRH C_{16}-C_{34} was identified at one location (JB63 0.1-0.2) exceeding the adopted management limits. Hydrocarbon impacts in this area are considered not to pose an unacceptable risk to groundwater (noting detailed groundwater assessment did not identify the presence of elevated TRH). Consideration should be given to the future placement of these materials, noting odorous soils at this location will require remediation and/or management; and
- Former UPSS and other petroleum storage (current/former) have been identified at the site which will require decommissioning[32], removal, and management of any residual potentially

[32] In accordance with Guidelines for Implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008, Department of Environment, Climate Change and Water NSW, September 2009 (DECC 2009).

impacted soils (which may be encountered adjacent to infrastructure) relevant to the proposed land use in (NEPC 2013);

The DGI outlined herein and previous detailed investigations (JBS&G 2020a) are considered to have generally satisfied the requirements of the SEARS. Based on the results of this assessment, it is considered that data gaps identified for the assessment area has been adequately addressed to enable the preparation of a site wide RAP, that when successfully implemented, will ensure the assessment area is suitable for the intended land uses.

12.2 Recommendations

JBS&G recommend a RAP be prepared to describe the required management strategy including any necessary remediation and validation works to ensure the assessment area and site is suitable for the proposed commercial/industrial land use (unencumbered by future management plans (i.e. EMP)).

13. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

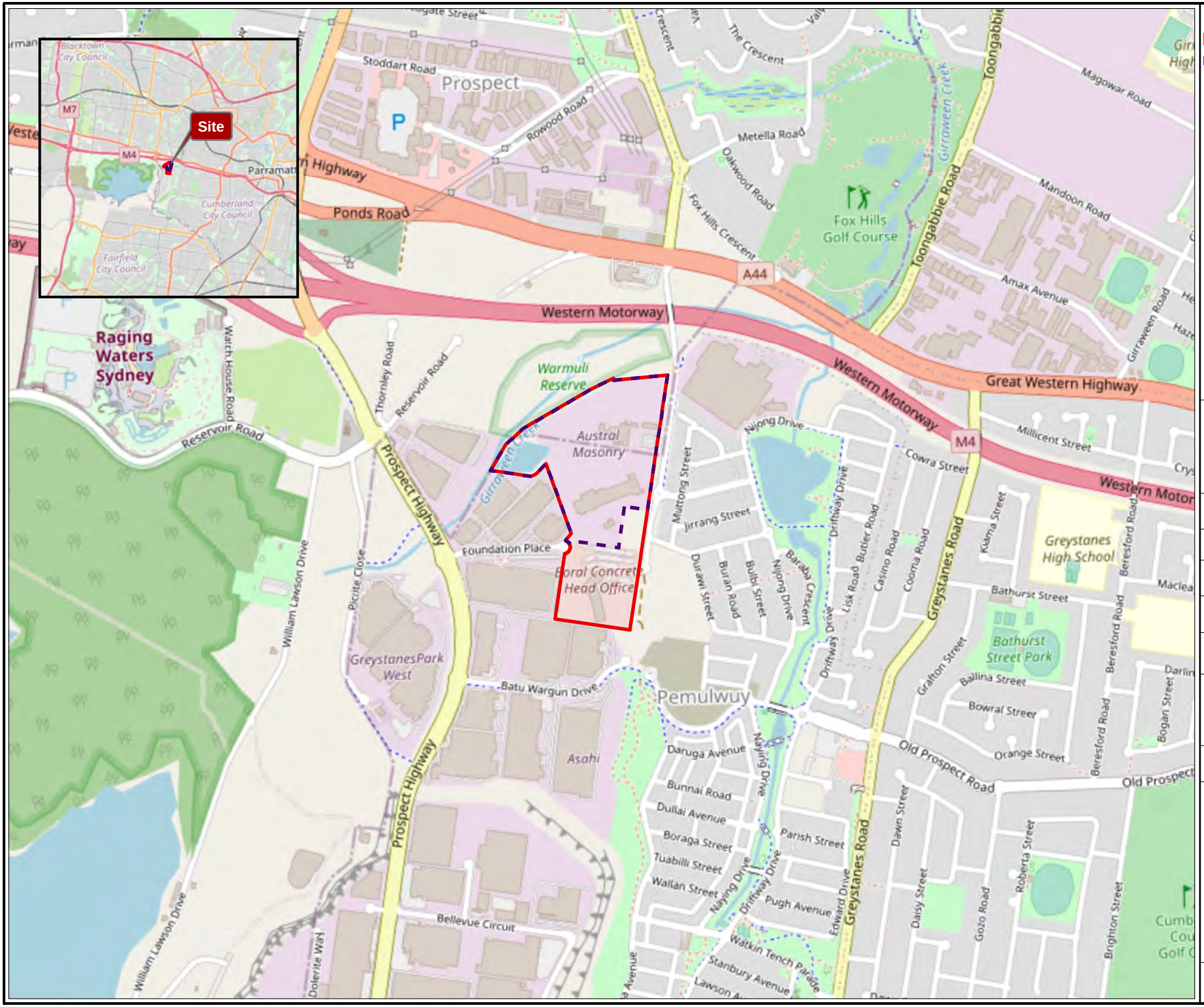
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



Legend

- Approximate Site Boundary
- Assessment Area

JBS&G

Job No: 58238	
Client: Aliro	
Version: R02 Rev A	Date 22/09/2020
Drawn By: JA	Checked By: CK

Scale 1:15,000

0 100 200

metres

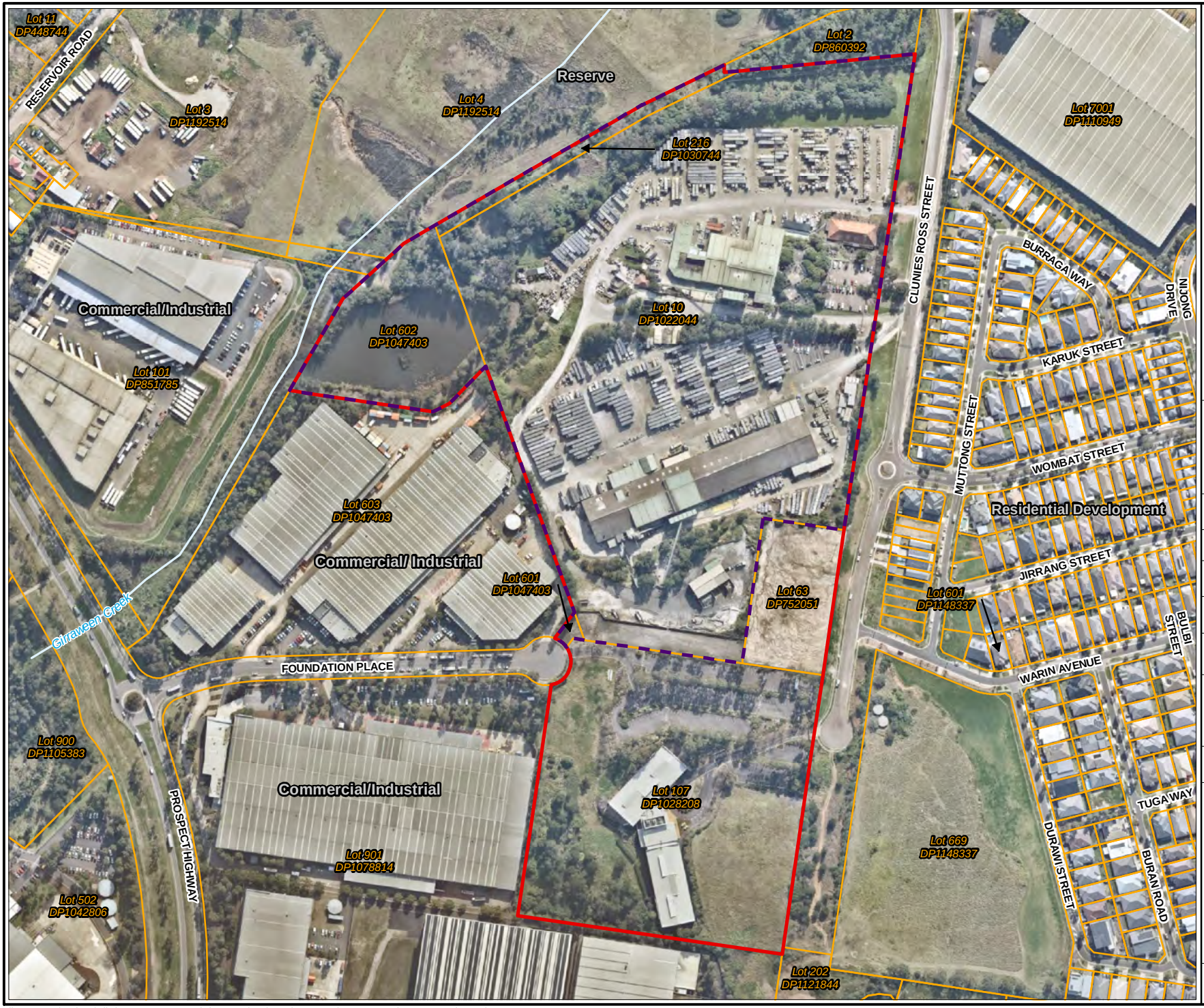
Coord. Sys. GDA 1994 MGA Zone 56

Prospect Legistics Estate,
Clunies Ross Street,
Pemulwuy, NSW

SITE LOCATION

FIGURE 1

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_01_SiteLocation.mxd
Reference: NSW DFSI, 2019



Legend

- Approximate Site Boundary
- Assessment Area
- NSW Cadastre (DFSI, 2020)

JBS&G

Job No: 58238	
Client: Aliro	
Version: R02 Rev A	Date 22/09/2020
Drawn By: JA	Checked By: Ck
Scale 1:4,250	

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

Prospect Logistics Estate,
Clunies Ross Street,
Pemulwuy, NSW

SITE AND ASSESSMENT AREA LAYOUT AND SETTING

FIGURE 2A

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_02a_SiteLayout_Setting.mxd
Reference: Nearmap - www.nearmap.com.au (Capture date:03/08/2020)



Legend

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)

Site Features

- Asbestos Roof
- Dense Vegetation with Large Stockpiles of Shale
- Former Diesel AST
- First Flush Pit
- Possible Redundant Service Easement
- Settling Pond
- Stockpile
- Lot Currently Being Remediated
- Abandoned UST

JBS&G

Job No: 58238	
Client: Aliro	
Version: R02 Rev A	Date 22/09/2020
Drawn By: JA	Checked By: CK
Scale 1:4,500	

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

SITE AND ASSESMENT AREA FEATURES

FIGURE 2B

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_02b_SiteFeatures.mxd
Reference: Nearmap - www.nearmap.com.au (Capture date:03/08/2020)



Legend:

- Approximate Site
- Assessment
- Cadastre (NSW LPI, 2019)

JBS&G

0 25 50
metres

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

HISTORIC SAMPLE LOCATIONS

Job No: 58238		Scale: 1:2,500		
Client: Aliro		Coord. Sys. GDA 1994 MGA Zone 56		
Drawn By: RF	Checked By: CK	Version: R02 Rev A	Date: 23-Sep-2020	**FIGURE 3**

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_03_SampleLocs.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)

Areas of Environmental Concern

1. Fill of Unknown Origin
2. Potential Asbestos Impacted Fill from Known Source
3. Settling Ponds
4. Petroleum Hydrocarbon Storage
5. Hydraulic Oil Storage
6. Raw Material/Waste Storage
7. Chemical Storage
8. Known/Potential Hazardous Building Materials
9. Electrical Transformer
10. Parking Areas
11. Former Buried Asbestos Waste

JBS&G

0 20 40
metres

Job No: 58238 | Scale: 1:2,000

Client: Aliro | Coord. Sys. GDA 1994 MGA Zone 56

Drawn By: RF | Checked By: CK | Version: R02 Rev A | Date: 22-Sep-2020

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

AREAS OF ENVIRONMENTAL CONCERN

FIGURE 4

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_04_AECs.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)

Sample Location

- Borehole
- Borehole/Monitoring Well
- Sediment Sample
- Soil Vapour
- Surface Water Sample
- Surface Water/Sediment Sample
- Test Pit

JBS&G

0 20 40
metres

Job No: 58238		Scale: 1:2,000		**Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW** **ASSESSMENT AREA SAMPLE LOCATIONS**
Client: Aliro		Coord. Sys. GDA 1994 MGA Zone 56		
Drawn By: JA	Checked By: CK	Version: R02 Rev A	Date: 23-Sep-2020	**FIGURE 5**

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_05_SampleLocs.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)
- Inferred Groundwater Direction
- Standing Water Level (m AHD)

Sample Location

- Borehole/Monitoring Well

JBS&G

0 20 40
metres

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

INFERRED GROUNDWATER EXTENT

Job No: 58238		Scale: 1:2,000		
Client: Aliro		Coord. Sys. GDA 1994 MGA Zone 56		
Drawn By: JA	Checked By: CK	Version: R02 Rev A	Date: 23-Sep-2020	**FIGURE 5**

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_06_GWContours.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



JB63	Depth (m bgs)	Concentration	Criteria
Analyte			
C16-C34	0.1-0.2	9300 mg/kg	Mgmt Lmt (NEPM 2013)

JBSED05	Depth (m bgs)	Concentration	Criteria
Analyte			
Nickel		64 mg/kg	Sed DGV (ANZG 2018)

JBSED04	Depth (m bgs)	Concentration	Criteria
Analyte			
Nickel		64 mg/kg	Sed DGV (ANZG 2018)

JBSED07	Depth (m bgs)	Concentration	Criteria
Analyte			
C10-C40 (Sum of total)		310 mg/kg	Sed DGV (ANZG 2018)

JBSED-01	Depth (m bgs)	Concentration	Criteria
Analyte			
Nickel		94 mg/kg	Sed DGV (ANZG 2018)
Zinc		1000 mg/kg	Sed DGV (ANZG 2018)

JB96	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.1-0.2	Present	Site Specific

JB98	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.5-0.6	Present	Site Specific

JB54	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.3-0.4	Present	Site Specific

JB95	Depth (m bgs)	Concentration	Criteria
Analyte			
Asbestos from FA & AF in Soil	0.9-1.0	0.0171 %	HSL D (NEPM 2013)

JB94	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.-0.2	Present	Site Specific

JB53	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	1-1.1	Present	Site Specific

JBSED-10	Depth (m bgs)	Concentration	Criteria
Analyte			
Zinc		730 mg/kg	Sed DGV (ANZG 2018)
C10-C40 (Sum of total)		561 mg/kg	Sed DGV (ANZG 2018)

JBSED-03	Depth (m bgs)	Concentration	Criteria
Analyte			
Zinc		640 mg/kg	Sed DGV (ANZG 2018)

JB17	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	1-1.1	580 mg/kg	EIL (NEPM 2013)
Bonded ACM	0-0.1	Present	Site Specific

JB16	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	3-3.1	620 mg/kg	EIL (NEPM 2013)

JB15	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0-1.0	Present	Site Specific

JB13	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.1-0.12	Present	Site Specific

JB14A	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.15-0.6	Present	Site Specific

JB14	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0.2-1.3	Present	Site Specific

JB22A	Depth (m bgs)	Concentration	Criteria
Analyte			
Bonded ACM	0-0.1	Present	Site Specific

JB21	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	0-0.1	460 mg/kg	EIL (NEPM 2013)

JB24	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	2-2.1	430 mg/kg	EIL (NEPM 2013)

JB20	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	0.2-0.3	850 mg/kg	EIL (NEPM 2013)
Bonded ACM	0-0.1	Present	Site Specific

JB84	Depth (m bgs)	Concentration	Criteria
Analyte			
Chromium (III+VI)	1.4-1.5	810 mg/kg	EIL (NEPM 2013)

Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)

Sample Exceedance

- No
- Yes

JBS&G

0 20 40 metres

Job No: 58238

Scale: 1:2,000

Client: Aliro

Coord. Sys. GDA 1994 MGA Zone 56

Drawn By: JA | Checked By: CK | Version: R02 Rev A | Date: 23-Sep-2020

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

ASSESSMENT AREA - SOIL AND SEDIMENT EXCEEDANCES

FIGURE 7A

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_07a_SoilSedimentExceedances.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



JBSW07	Concentration	Criteria
Analyte		
Zinc (Filtered)	0.073 mg/L	Freshwater 80% (ANZG 2018)

JBSW04	Concentration	Criteria
Analyte		
Copper (Filtered)	0.003 mg/L	Freshwater 80% (ANZG 2018)
Zinc (Filtered)	0.048 mg/L	Freshwater 80% (ANZG 2018)

JBSW-01	Concentration	Criteria
Analyte		
Copper (Filtered)	0.003 mg/L	Freshwater 80% (ANZG 2018)

JBSW-03	Concentration	Criteria
Analyte		
Copper (Filtered)	0.003 mg/L	Freshwater 80% (ANZG 2018)

MW07	Concentration	Criteria
Analyte		
Zinc (Filtered)	0.047 mg/L	Freshwater 80% (ANZG 2018)

Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)

Sample Exceedance

- No
- Yes

JBS&G

0 20 40
metres

Job No: 58238 | Scale: 1:2,000

Client: Aliro | Coord. Sys. GDA 1994 MGA Zone 56

Drawn By: JA | Checked By: CK | Version: R02 Rev A | Date: 23-Sep-2020

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

ASSESSMENT AREA - GROUNDWATER EXCEEDANCES

FIGURE 7B

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_07b_GroundwaterExceedances.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)



Location	Depth (m bgs)	Impact	PID (ppm)
JB63	0.1-2.0	Strong chemical/hydrocarbon odour	3.8

Location	Depth (m bgs)	Impact	PID (ppm)
JB31	0.05-0.1	Slight chemical odour	2.7

Location	Depth (m bgs)	Impact	PID (ppm)
JB93	0.4-2.0	Strong hydrocarbon (diesel) odour	32.2

Location	Depth (m bgs)	Impact	PID (ppm)
JB105	0.05-0.1	Slight chemical odour	5.7

Legend:

- Approximate Site Boundary
- Assessment Area
- Cadastre (NSW LPI, 2019)
- Anthropogenic Waste in Fill Material
- Discarded Equipment, Disused Plant and General Waste

Sample Exceedance

- No
- Yes

JBS&G

0 20 40
metres

Job No: 58238 | Scale: 1:2,000

Client: Aliro | Coord. Sys. GDA 1994 MGA Zone 56

Drawn By: JA | Checked By: CK | Version: R02 Rev A | Date: 23-Sep-2020

Prospect Logistics Estate, Clunies Ross Street, Pemulwuy, NSW

ASSESSMENT AREA - AESTHETIC IMPACTS

FIGURE 7C

File Name: N:\Projects\Aliro\58238 Prospect Logistics Estate\GIS\Maps\R02 Rev A\58238_07c_AestheticImpacts.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 03/08/2020)

Appendix A Proposed Redevelopment

Aliro

SITE LEGEND

- FNC-1, CHAINMESH FENCING
- FNC-2, PALISADE FENCING
- RW — RETAINING WALL - INDICATIVE
- SG — SLIDING GATE
- GATE
- PEDESTRIAN GATE
- SITE BOUNDARY
- BUILDING SETBACK
- LANDSCAPE SETBACK
- SEWER
- S1 — TENANT PYLON SIGNAGE
- S2 — ESTATE SIGNAGE
- WT — WATER TANK ABOVE GROUND
- WT — WATER TANK UNDER GROUND
- BP — BIKE PARKING
- S1 — SITE IDENTIFICATION 8m (MUILTI TENANT)
- S2 — SITE IDENTIFICATION 2.5m
- S3 — SITE IDENTIFICATION 2m
- S4 — SECONDARY DIRECTIONAL 2m
- S5 — SECONDARY DIRECTIONAL 2m
- S6 — SECONDARY DIRECTIONAL 1.3m
- S7 — TENANCY SIGNAGE 12m X 4m
  REFER TO ELEVATIONS FOR LOCATION

AREA SCHEDULE (GFA)	
SITE COVERAGE	51.2%
AWNINGS AREA	
WH 01	2,205sqm
WH 02	3,129sqm
WH 03	2,439sqm
WH 04	1,408sqm
WH 05	2,197sqm
WH 06	1,303sqm
WH 07	1,536sqm
TOTAL AWNING AREA	14,217sqm
LANDSCAPE AREA (INCLUDING HERITAGE RESERVE)	34,468sqm 18.5%
CARPARKING REQUIRED	544
CARPARKING PROVIDED	564

AREA SCHEDULE (GFA)	
SITE AREA (INCLUDING HERITAGE RESERVE)	**186,596.5 sqm**
WAREHOUSE 01	18,224sqm
OFFICE 01	1,196sqm
DOCK OFFICE 01	100sqm
DOCK OFFICE 02	100sqm
WAREHOUSE 02	24,071sqm
OFFICE 02	1,687sqm
DOCK OFFICE	100sqm
WAREHOUSE 03	12,088sqm
OFFICE 03	1,118sqm
DOCK OFFICE 01	100sqm
DOCK OFFICE 02	100sqm
WAREHOUSE 04	5,349sqm
OFFICE 04	376sqm
DOCK OFFICE	100sqm
WAREHOUSE 05	10,401sqm
OFFICE 05	1,009sqm
DOCK OFFICE	100sqm
WAREHOUSE 06	8,441sqm
OFFICE 06	913sqm
DOCK OFFICE	100sqm
WAREHOUSE 07	8,927sqm
OFFICE 07	793sqm
DOCK OFFICE	100sqm
TOTAL WAREHOUSE GFA	87,501sqm
TOTAL OFFICE GFA	7,992sqm
CAFE	146sqm
GRAND TOTAL GFA	95,639sqm



VISUAL SCALE 1:1000 @ A1

SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Phone: 02 9929 9188 Web: www.sbaarch.com.au

M	ISSUED FOR DA	22.05.20
L	ISSUED FOR DA	21.05.20
K	ISSUED FOR DA	20.05.20
J	PRELIMINARY ISSUED	08.05.20
H	PRELIMINARY ISSUED	30.04.20
G	PRELIMINARY ISSUED	21.04.20
F	FOR INFORMATION	27.03.20
#	DESCRIPTION	DATE

CLIENT: Aliro

ELEVATION @ GREYSTANES

LOTS 107, 63 & 10 CLUNIES ROSS STREET, GREYSTANES

NORTH

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TITLE: SITE PLAN

DATE	SCALE	PROJECT NO.	DWG NO.	REVISION
22.05.20	As indicated @ A1	19280	DA100	M

Appendix B Analytical Summary Tables

Table A: Soil Analytical Results
Project Number: 52238
Project Name: Prospect Logistics Estate DGI

| | Metals & Metalloids | | | | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | BTEXN | | | | | | | PAH | | | | | | | | | | |

Table A: Soil Analytical Results
Project Number: 5823B
Project Name: Prospect Logistics Estate DGI

| | Metals & Metalloids | | | | | | | | | | | | TPHs (NEPC 1999) | | | | TRHs (NEPC 2013) | | | | | | BTEXN | | | | | | PAH | | | | | | | | | | | |

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

| | | | | Organochlorine Pesticides | | | |

Table A: Soil Analytical Results
Project Number: 5823B
Project Name: Prospect Logistics Estate DGI

| | Organochlorine Pesticides | | |

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

| | Semivolatile Organic Compounds | | | | | | | | | | | | | | | | | | | | | | Solvents | Polychlorinated Biphenyls | | | | | | Phenols | | | | | | | | | | | | | | | | | | |

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

| | Semivolatile Organic Compounds | | |

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

| | | | | | | | | | | | | | | | | | MAH | | | | | | | | Miscellaneous Hydrocarbons | | | | | | | | | Chlorinated Benzenes | | | | | | | | | | | | | | | | | | | | Trihalomethanes | | | | Asbestos | | | | | | | | | | | | | Herbicides & Fungicides | | | | Phthalates | | | | | | | Nitrobenzenes | | Nitrotoluenes | Anilines | | | | | |
|---|---|---

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

| | | |

Table A: Soil Analytical Results
Project Number: 5823B
Project Name: Prospect Logistics Estate DGI

				Organic Sulfur Compounds	Organic Alcohols	Non-Metallic Inorganics	Ionic Balance			Inorganics	Chlorinated Hydrocarbons		Other
				Carbon disulfide	Phenyl Alcohol	Cyanide (Free)	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Moisture	Hexachlorocyclopentadiene	Hexachlorobutadiene	Moisture Content at (dried @ 103°C)
				mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	mg/kg	mg/kg	%
				0.5	1	1	0.05	10	0.1	0.1	0.5	0.5	1
ANZG (2018) - Sediment Quality GV-high, freshwater													
NEPM 2013 Table 1A(1) HILs Comm/ind D Soil						1500							
NEPM 2013 Table 1A(3) Comm/ind D Soil HSL for Vapour Intrusion, Clay 0-1m													
NEPM 2013 Table 1A(3) Comm/ind D Soil HSL for Vapour Intrusion, Sand 0-1m													
NEPM 2013 Table 1B(1-5) Specific ESL - Comm/ind													
NEPM (2013) Table 1B(6) ESL - Comm/ind, Fine Soil													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil													
Field_ID	**SampleCode**	**Lab_Report_Number**	**Matrix_Type**										
DR-1	S20-Se33590	745190	SOIL	-	-	-	-	-	-	-	-	-	-
DR-2	S20-Se33591	745190	SOIL	-	-	-	-	-	-	-	-	-	-
DR-3	S20-Se33592	745190	SOIL	-	-	-	-	-	-	-	-	-	-
JB01_0.4-0.5	S20-Se13658	742676	soil	-	-	-	-	-	-	-	-	-	7.9
JB02_0.5-0.6	S20-Se13659	742676	soil	-	-	-	-	-	-	-	-	-	11
JB03_0.3-0.4	S20-Se13660	742676	soil	-	-	-	-	-	-	-	-	-	12
QC20200905-CK1	250686-5	250686	soil	-	-	-	-	-	-	15	-	-	-
QA20200905-CK2	S20-Se13721	742676	soil	-	-	-	-	-	-	-	-	-	6.9
JB03_2.4-2.5	S20-Se13661	742676	soil	-	-	-	-	-	-	-	-	-	9.9
QA20200905-CK1	S20-Se13720	742676	soil	-	-	-	-	-	-	-	-	-	12
QC20200905-CK2	250686-6	250686	soil	-	-	-	-	-	-	13	-	-	-
JB04 0.2-0.3	S20-Se07080	742039	soil	-	-	-	-	-	-	-	-	-	17
JB05 0.5-0.6	S20-Se07078	742039	soil	-	-	-	-	-	-	-	-	-	12
JB05 0-0.1	S20-Se07077	742039	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	9.2
JB05 2-2.1	S20-Se07079	742039	soil	-	-	-	-	-	-	-	-	-	14
JB06_2.0-2.1	S20-Se13662	742676	soil	-	-	-	-	-	-	-	-	-	12
JB07_0-0.1	S20-Se13663	742676	soil	-	-	-	-	-	-	-	-	-	2
JB07A_0-0.1	S20-Se13411	742692	soil	-	-	-	-	-	-	-	-	-	20
JB08_1.5-1.6	S20-Se13664	742676	soil	-	-	-	-	-	-	-	-	-	8.2
JB10 0.5-0.6	S20-Se07075	742039	soil	-	-	-	-	-	-	-	-	-	5.7
JB10 0-0.1	S20-Se07074	742039	soil	-	-	-	-	-	-	-	-	-	11
JB10 2-2.1	S20-Se07076	742039	soil	<0.5	-	-	-	-	-	-	-	-	11
QA20200829_MN02	S20-Se07116	742039	soil	-	-	-	-	-	-	-	-	-	11
QC20200829-MN02	250482-2	250482	soil	-	-	-	-	-	-	12	-	-	-
JB100_0.0-0.1	S20-Se13726	742676	soil	-	-	-	-	-	-	-	-	-	12
JB100_0.4-0.5	S20-Se13727	742676	soil	-	-	-	-	-	-	-	-	-	17
JB100_1.2-1.3	S20-Se13728	742676	soil	-	-	-	-	-	-	-	-	-	17
JB101_0.15-0.2	S20-Se13714	742676	soil	-	-	-	-	-	-	-	-	-	20
JB103_0.4-0.5	S20-Se13715	742676	soil	<0.5	-	-	-	-	-	-	-	-	9.9
JB105_0.05-0.1	S20-Se13716	742676	soil	<0.5	-	-	-	-	-	-	-	-	13
JB11 0-0.1	S20-Se07072	742039	soil	-	-	-	-	-	-	-	-	-	7.2
JB11 1-1.1	S20-Se07073	742039	soil	<0.5	-	-	-	-	-	-	-	-	8
JB110_0.6-0.7	S20-Se26723	744324	SOIL	-	-	-	-	-	-	-	-	-	21
JB110_0-0.1	S20-Se26722	744324	SOIL	<0.5	-	-	42	57	-	-	-	-	17
JB111_0.5-0.6	S20-Se26725	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	21
JB111_0-0.1	S20-Se26724	744324	SOIL	-	-	-	-	-	-	-	-	-	-
JB113_0-0.1	S20-Se26726	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	25
JB114_0.5-0.6	S20-Se26728	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	23
JB114_0-0.1	S20-Se26727	744324	SOIL	-	-	-	-	-	-	-	-	-	-
JB115_0.4-0.5	S20-Se26730	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	21
JB115_0-0.1	S20-Se26729	744324	SOIL	-	-	-	-	-	-	-	-	-	-
JB116_0-0.1	S20-Se26731	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	22
JB117_0.4-0.5	S20-Se26733	744324	SOIL	-	-	-	-	-	-	-	-	-	43
JB117_0-0.1	S20-Se26732	744324	SOIL	-	-	-	-	-	-	-	-	-	19
JB118_0-0.1	S20-Se26734	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	19
JB12 0.3-0.4	S20-Se07067	742039	soil	<0.5	-	-	-	-	-	-	-	-	17
JB12 1.1-1.2	S20-Se07068	742039	soil	-	-	-	-	-	-	-	-	-	10
JB13_0.5-0.6	S20-Se13665	742676	soil	-	-	-	-	-	-	-	-	-	7.2
JB14 0-0.1	S20-Se07071	742039	soil	-	-	-	-	-	-	-	-	-	6.1
JB14_0.5-0.6	S20-Se13666	742676	soil	-	-	-	-	-	-	-	-	-	14
JB14A_0.5-0.6	S20-Se13667	742676	soil	-	-	-	-	-	-	-	-	-	8.4
JB14A_1.0-1.1	S20-Se13668	742676	soil	-	-	-	-	-	-	-	-	-	-
JB14B_0-0.1	S20-Se13669	742676	soil	-	-	-	-	-	-	-	-	-	7
JB14B_1.5-1.6	S20-Se13670	742676	soil	-	-	-	39	1600	7.9	-	-	-	14
JB14D_0-0.1	S20-Se13671	742676	soil	-	-	-	-	-	-	-	-	-	7.2
JB15 0-0.1	S20-Se07069	742039	soil	<0.5	-	-	-	-	-	-	-	-	10
JB15 2-2.1	S20-Se07070	742039	soil	-	-	-	-	-	-	-	-	-	10
JB15_0.2-0.5	S20-Se13412	742692	soil	-	-	-	-	-	-	-	-	-	15
JB16 0-0.1	S20-Se07065	742039	soil	-	-	-	-	-	-	-	-	-	24
JB16 3-3.1	S20-Se07066	742039	soil	-	-	-	-	-	-	-	-	-	28
JB17 0-0.1	S20-Se07063	742039	soil	-	-	<1	-	-	-	-	-	-	19
JB17 1-1.1	S20-Se07064	742039	soil	-	-	<1	-	-	-	-	-	-	27
JB17a 0-0.1	S20-Se07689	742039	soil	-	-	-	-	-	-	-	-	-	20
JB17a 1-1.1	S20-Se07690	742039	soil	<0.5	-	-	-	-	-	-	-	-	10
JB18 0.5-0.6	S20-Se07062	742039	soil	-	-	-	-	-	-	-	-	-	13
JB18 0-0.1	S20-Se07061	742039	soil	<0.5	-	-	-	-	-	-	-	-	9.3
JB19-03	S20-Se07059	742039	soil	-	-	-	-	-	-	-	-	-	19
JB19-05	S20-Se07060	742039	soil	-	-	-	-	-	-	-	-	-	6.1
JB20_0.2-0.3	S20-Se13673	742676	soil	-	-	-	-	-	-	-	-	-	27
JB21_0-0.1	S20-Se13674	742676	soil	-	-	-	-	-	-	-	-	-	21
JB22A_0-0.1	S20-Se13675	742676	soil	<0.5	-	<1	-	-	-	-	-	-	8.6
JB22A_FRAG	S20-Se13676	742676	soil	-	-	-	-	-	-	-	-	-	-
JB22B_0-0.1	S20-Se13677	742676	soil	-	-	-	-	-	-	-	-	-	23
JB23_0-0.1	S20-Se13413	742692	soil	-	-	-	-	-	-	-	-	-	9.8
JB24 0-0.1	S20-Se07092	742039	soil	-	-	-	-	-	-	-	-	-	8
JB24 2-2.1	S20-Se07093	742039	soil	-	-	-	-	-	-	-	-	-	48
JB25_0-0.1	S20-Se13414	742692	soil	-	-	-	-	-	-	-	-	-	9.1
JB26_0-0.1	S20-Se13415	742692	soil	-	-	-	-	-	-	-	-	-	8
JB27_0.5-0.6	S20-Se13679	742676	soil	-	-	<1	-	-	-	-	-	-	13
JB27_0-0.1	S20-Se13678	742676	soil	<0.5	-	<1	31	45	8.5	-	-	-	3.6
QA20200904-1	S20-Se13717	742676	soil	-	-	<1	-	-	-	-	-	-	3.4
QC20200904-1	250686-1	250686	soil	-	-	<0.5	-	-	-	3	-	-	-
JB28_0.2-0.3	S20-Se13680	742676	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	19
JB28_0.5-0.6	S20-Se13681	742676	soil	-	-	-	-	-	-	-	-	-	18
JB28_1.5-1.6	S20-Se13682	742676	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	15
JB29_0.1-0.2	S20-Se13683	742676	soil	-	-	-	-	-	-	-	-	-	12
JB30_0.05-0.1	S20-Se13684	742676	soil	-	-	-	-	-	-	-	-	-	12
JB30_1.0-1.1	S20-Se13685	742676	soil	-	-	-	-	-	-	-	-	-	25
JB31_0.05-0.1	S20-Se13686	742676	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	12
JB31_0.9-0.1	S20-Se13687	742676	soil	-	-	-	-	-	-	-	-	-	22
JB32 0.05-0.35	S20-Se07084	742039	soil	-	-	-	-	-	-	-	-	-	8.3
JB32 0.4-0.5	S20-Se07085	742039	soil	-	-	-	-	-	-	-	-	-	11
JB32 0.9-1.1	S20-Se07086	742039	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	25
JB32 5-5.1	S20-Se07087	742039	soil	-	-	-	-	-	-	-	-	-	10
JB35_2.1-2.2	S20-Se13688	742676	soil	<0.5	-	<1	-	-	-	-	-	-	15
JB35_4.0-4.1	S20-Se13689	742676	soil	-	-	-	-	-	-	-	-	-	4.7
JB36_0.05-0.1	S20-Se13690	742676	soil	-	-	<1	-	-	-	-	-	-	7.9
JB37_0.05-0.1	S20-Se13691	742676	soil	-	-	-	-	-	-	-	-	-	9
JB37_4.0-4.1	S20-Se13692	742676	soil	-	-	-	-	-	-	-	-	-	22
JB38_0.1-0.2	S20-Se13693	742676	soil	<0.5	-	-	-	-	-	-	-	-	22
JB38_1.8-1.9	S20-Se13694	742676	soil	-	-	-	-	-	-	-			21
JB39_0.2-0.3	S20-Se13695	742676	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	23

Table A: Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate DGI

				Organic Sulfur Compounds	Organic Alcohols	Non-Metallic Inorganics	Ionic Balance			Inorganics	Chlorinated Hydrocarbons		Other
				Carbon disulfide	Ethanol Alcohol	Cyanide (Free)	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Moisture	Hexachlorocyclopentadiene	Hexachlorobutadiene	Moisture Content at (dried @ 103°C)
				mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	mg/kg	mg/kg	%
				0.5	1	1	0.05	10	0.1	0.1	0.5	0.5	1
ANZG (2018) - Sediment Quality GV-high, freshwater													
NEPM 2013 Table 1A(1) HILs Comm/ind D Soil						1500							
NEPM 2013 Table 1A(3) Comm/ind D Soil HSL for Vapour Intrusion, Clay 0-1m													
NEPM 2013 Table 1A(3) Comm/ind D Soil HSL for Vapour Intrusion, Sand 0-1m													
NEPM 2013 Table 1B(1-5) Specific ESL - Comm/ind													
NEPM (2013) Table 1B(6) ESL - Comm/ind, Fine Soil													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil													
Field_ID	**SampleCode**	**Lab_Report_Number**	**Matrix_Type**										
JB40 0.3-0.5	S20-Se07088	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	20
JB40 1.6-1.7	S20-Se07089	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	5.3
QA-JB02_0830	S20-Se07118	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	12
QCJB-2-0830	250482-5	250482	soil	-	-	<0.5	-	-	-	15	<2	<0.5	-
JB40 1.6-2.0	S20-Se07090	742039	soil	-	-	-	-	-	-	-	-	-	-
JB40 7-7.1	S20-Se07091	742039	soil	-	-	-	-	-	-	-	-	-	8.7
JB41_0.1-0.2	S20-Se13696	742676	soil	<0.5	-	<1	-	-	-	-	-	-	23
QC202009O5-2	250686-4	250686	soil	-	-	-	-	-	-	26	-	-	-
QA202009O5-2	S20-Se13719	742676	soil	-	-	-	-	-	-	-	-	-	22
JB42_0.05-0.1	S20-Se13697	742676	soil	<0.5	-	-	-	-	-	-	-	-	8.6
JB43_0-0.1	S20-Se13698	742676	soil	-	-	-	-	-	-	-	-	-	8.5
JB43A_0-0.1	S20-Se13699	742676	soil	-	-	-	-	-	-	-	-	-	5.9
JB44_0-0.1	S20-Se13700	742676	soil	-	-	-	-	-	-	-	-	-	14
JB45_0.05-0.1	S20-Se13701	742676	soil	-	-	-	-	-	-	-	-	-	17
JB46 0.5-0.6	S20-Se07056	742039	soil	-	-	-	-	-	-	-	-	-	17
JB46 0-0.1	S20-Se07055	742039	soil	-	-	-	-	-	-	-	-	-	15
JB48 0.1-0.2	S20-Se07106	742039	soil	<0.5	-	<1	-	-	-	-	-	-	11
JB48 0.9-1	S20-Se07107	742039	soil	-	-	-	-	-	-	-	-	-	15
JB49_0.05-0.1	S20-Se13702	742676	soil	-	-	-	-	-	-	-	-	-	13
JB50_0.1-0.2	S20-Se13703	742676	soil	<0.5	-	-	-	-	-	-	-	-	5
JB50_3.3-3.4	S20-Se13704	742676	soil	-	-	-	-	-	-	-	-	-	15
JB52_0.5-0.6	S20-Se13736	742676	soil	<0.5	-	-	-	-	-	-	-	-	11
JB53 0.3-0.4	S20-Se07039	742039	soil	<0.5	-	<1	-	-	-	-	-	-	9.2
JB53 2-2.1	S20-Se07040	742039	soil	-	-	-	-	-	-	-	-	-	10
JB53 3-3.1	S20-Se07041	742039	soil	-	-	-	-	-	-	-	-	-	-
JB53_FRAG	S20-Se07108	742039	soil	-	-	-	-	-	-	-	-	-	-
JB54 0.3-0.4	S20-Se07052	742039	soil	-	-	-	-	-	-	-	-	-	23
JB54 0-0.1	S20-Se07051	742039	soil	-	-	-	-	-	-	-	-	-	-
JB54 1-1.1	S20-Se07053	742039	soil	-	-	-	-	-	-	-	-	-	11
JB54 2-2.1	S20-Se07054	742039	soil	-	-	-	-	-	-	-	-	-	11
JB54_FRAG	S20-Se07109	742039	soil	-	-	-	-	-	-	-	-	-	-
JB55 0-0.1	S20-Se07048	742039	soil	-	-	-	-	-	-	-	-	-	14
JB55 1-1.1	S20-Se07049	742039	soil	<0.5	-	<1	-	-	-	-	-	-	13
JB55 3-3.1	S20-Se07050	742039	soil	-	-	-	-	-	-	-	-	-	20
JB58 0.3-0.4	S20-Se07033	742039	soil	-	-	-	-	-	-	-	-	-	23
JB58 0-0.1	S20-Se07032	742039	soil	-	-	-	-	-	-	-	-	-	16
JB58 3-3.1	S20-Se07034	742039	soil	-	-	-	-	-	-	-	-	-	23
JB59 0-0.1	S20-Se24747	744324	SOIL	-	-	-	-	-	-	-	-	-	29
JB60 0-0.1	S20-Se07035	742039	soil	-	-	-	-	-	-	-	-	-	13
JB60_0.3-0.4	S20-Se13894	742676	soil	<0.5	-	-	-	-	-	-	-	-	12
JB61_0-0.1	S20-Se26748	744324	SOIL	-	-	-	-	-	-	-	-	-	24
JB62_0-0.1	S20-Se26749	744324	SOIL	-	-	-	-	-	-	-	-	-	16
JB63_0.1-0.2	S20-Se13705	742676	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	8
JB63_2.1-2.2	S20-Se13706	742676	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	18
JB65_0.05-0.1	S20-Se13707	742676	soil	-	-	-	-	-	-	-	-	-	8.7
JB66 0.5-0.6	S20-Se07103	742039	soil	-	-	-	-	-	-	-	-	-	21
JB66 2-2.1	S20-Se07104	742039	soil	-	-	-	-	-	-	-	-	-	27
JB66 4-4.1	S20-Se07105	742039	soil	-	-	-	-	-	-	-	-	-	23
JB67 3.0-3.1	S20-Se13708	742676	soil	-	-	-	45	2400	8.2	-	-	-	21
JB68_1.3-1.4	S20-Se13709	742676	soil	-	-	-	-	-	-	-	-	-	16
JB70 0-0.1	S20-Se13710	742676	soil	-	-	-	-	-	-	-	-	-	22
JB75_0.5-1	S20-Se13407	742692	soil	-	-	-	-	-	-	-	-	-	21
JB75_0-0.1	S20-Se13406	742692	soil	-	-	-	-	-	-	-	-	-	21
JB76_0-0.1	S20-Se13408	742692	soil	-	-	-	-	-	-	-	-	-	19
JB77_0-0.1	S20-Se13409	742692	soil	-	-	-	-	-	-	-	-	-	27
JB78_0-0.1	S20-Se13410	742692	soil	-	-	-	-	-	-	-	-	-	-
JB80 0-0.1	S20-Se13711	742676	soil	-	-	-	-	-	-	-	-	-	17
JB81 0.5-0.6	S20-Se07098	742039	soil	-	-	-	-	-	-	-	-	-	17
JB81 0.9-1	S20-Se07099	742039	soil	-	-	-	-	-	-	-	-	-	17
QA JB01_0829	S20-Se07119	742039	soil	-	-	-	-	-	-	-	-	-	24
QCJB01-0829	250482-4	250482	soil	-	-	-	-	-	-	25	-	-	-
JB81 1.5-1.6	S20-Se07100	742039	soil	-	-	-	-	-	-	-	-	-	18
JB81 4-4.1	S20-Se07101	742039	soil	-	-	-	-	-	-	-	-	-	16
JB81 5.5-5.6	S20-Se07102	742039	soil	-	-	-	-	-	-	-	-	-	23
JB82 0-0.1	S20-Se07081	742039	soil	-	-	-	-	-	-	-	-	-	11
JB83 0.1-0.2	S20-Se07082	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	6.1
JB83 0.5-0.6	S20-Se07083	742039	soil	-	-	-	-	-	-	-	-	-	13
QA202008Z9_MN01	S20-Se07115	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	6
QC202008Z9-MN01	250482-1	250482	soil	-	<1	<0.5	-	-	-	9.8	<2	<0.5	-
JB84 0-0.1	S20-Se07057	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	7.5
QA202008Z9_MN03	S20-Se07117	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	9.7
QC202008Z9-MN03	250482-3	250482	soil	-	<1	<0.5	-	-	-	10	<2	<0.5	-
JB84 1.4-1.5	S20-Se07058	742039	soil	-	-	-	-	-	-	-	-	-	30
JB85 0.5-0.7	S20-Se07094	742039	soil	<0.5	-	-	-	-	-	-	-	-	20
JB85 0.5-1.0	S20-Se07095	742039	soil	-	-	-	-	-	-	-	-	-	-
JB85 2-2.2	S20-Se07096	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	29
JB85 4.8-5.0	S20-Se07097	742039	soil	-	-	-	-	-	-	-	-	-	11
JB86 0.3-0.4	S20-Se07045	742039	soil	<0.5	-	<1	-	-	-	-	-	-	11
JB86 2-2.1	S20-Se07046	742039	soil	<0.5	-	-	-	-	-	-	-	-	12
JB86A 0.3-0.4	S20-Se07047	742039	soil	-	-	-	-	-	-	-	-	-	8.5
JB87 0.3-0.4	S20-Se07036	742039	soil	-	-	-	-	-	-	-	-	-	11
JB87 1-1.1	S20-Se07037	742039	soil	-	-	-	-	-	-	-	-	-	10
JB87 2-2.1	S20-Se07038	742039	soil	-	-	-	-	-	-	-	-	-	9.8
JB88 0.5-0.6	S20-Se07043	742039	soil	<0.5	-	-	-	-	-	-	-	-	25
JB88 0-0.1	S20-Se07042	742039	soil	-	-	-	-	-	-	-	-	-	14
JB88 3-3.1	S20-Se07044	742039	soil	-	-	-	-	-	-	-	-	-	19
JB89_0.4-0.5	S20-Se13735	742676	soil	-	-	-	-	-	-	-	-	-	-
JB89A_0.2-0.3	S20-Se13737	742676	soil	-	-	-	-	-	-	-	-	-	-
JB93_0.4-0.5	S20-Se13712	742676	soil	<0.5	-	-	-	-	-	-	<0.5	<0.5	26
JB93_2.0-2.1	S20-Se13713	742676	soil	<0.5	-	-	-	-	-	-	-	-	14
QA202009O5-1	S20-Se13718	742676	soil	<0.5	-	<1	-	-	-	-	-	-	26
QC202009O5-1	250686-3	250686	soil	-	-	<0.5	-	-	-	26	-	<1	-
JB94_0.9-1.0	S20-Se13733	742676	soil	-	-	-	-	-	-	-	-	-	-
JB94_2.4-2.5	S20-Se13734	742676	soil	-	-	-	-	-	-	-	-	-	-
JB94-A	S20-Se13740	742676	soil	-	-	-	-	-	-	-	-	-	-
JB95_0.9-1.0	S20-Se13732	742676	soil	-	-	-	-	-	-	-	-	-	-
JB96_0.0-0.1	S20-Se13731	742676	soil	-	-	-	-	-	-	-	-	-	-
JB96-A	S20-Se13739	742676	soil	-	-	-	-	-	-	-	-	-	-
JB98_0.0-0.1	S20-Se13729	742676	soil	-	-	-	40	820	8.4	-	-	-	14
JB98_1.9-2.0	S20-Se13730	742676	soil	-	-	-	-	-	-	-	-	-	29
JB98-A	S20-Se13738	742676	soil	-	-	-	-	-	-	-	-	-	-
JBSED-01	S20-Se13264	742668	soil	<0.5	-	-	-	-	-	-	-	-	77
JBSED-02	S20-Se13265	742668	soil	<0.5	-	-	-	-	-	-	-	-	33
JBSED-03	S20-Se13266	742668	soil	<0.5	-	-	-	-	-	-	-	-	61
JBSED04	S20-Se26735	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	66
JBSED05	S20-Se26736	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	45
JBSED06	S20-Se26737	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	49
JBSED07	S20-Se26738	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	72
JBSED08	S20-Se26739	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	57
JBSED09	S20-Se26740	744324	SOIL	<0.5	-	-	-	-	-	-	-	-	75
JBSED-10	S20-Se13589	745190	SOIL	-	-	-	-	-	-	-	-	-	46
PT2-6	S20-Se22816	743842	soil	-	-	-	-	-	-	-	-	-	-
PT2-7	S20-Se22817	743842	soil	-	-	-	-	-	-	-	-	-	-
QC202008Z9-MN01 - [TRIPLICATE]	250482-6	250482	soil	-	<1	-	-	-	-	-	<2	<0.5	-
SED01	S20-Se07114	742039	soil	<0.5	-	<1	-	-	-	-	<0.5	<0.5	62
				60	4	31	5	5	4	10	22	23	180
				0	0	0	5	5	4	10	0	0	180
				<0.5	<1	<0.5	31	45	7.9	3	<0.5	<0.5	2
				ND	ND	ND	31	45	7.9	3	ND	ND	2
				<0.5	<1	<1	45	2400	8.5	26	<2	<1	77
				ND	ND	ND	45	2400	8.5	26	ND	ND	77
				0.25	0.5	0.46	39	984	8.3	15	0.39	0.26	18
				0.25	0.5	0.5	40	820	8.3	14	0.25	0.25	15
				0	0	0.093	5.2	1019	0.26	7.8	0.3	0.052	13

Table B: Soil Leachate Data
Project Number: 58238
Project Name: Prospect Logistics Estate

		Metals & Metalloids												PAH																	Ionic Balance						Inorganics
		Arsenic AS1/TCLP	Cadmium AS1/TCLP	Chromium (iii+VI) TCP	Chromium (iii+VI) AS.P	Copper TCLP	Copper ASLP	Lead TCLP	Lead ASLP	Mercury AS1/TCLP	Nickel TCLP	Nickel ASLP	Zinc TCLP	Zinc ASLP	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(b)+(j)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	pH of Leaching Fluid	pH (after HCL)	pH (final)	pH (final)	pH (initial)	pH (initial)	Leachate fluid
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	PH UNITS	pH Units	pH Units	pH Units	pH Units	pH Units	Comment
EQL		0.005	0.0005	0.01	0.01	0.01	0.01	0.01	0.01	0.0001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.1	0.1	0.1	0.1	0.1	0.1	
NSW 2014 General Solid Waste TCLP1 (leached)		c#1	c#1	c#2	c#2			c#3	c#3	0.2#4	2#4	2#4							0.04#5																			
Field_ID	**Sampled_Date_Time**																																					
JB113_0-0.1	11/09/2020	<0.005	<0.0005	<0.05	0.56	<0.05	0.08	<0.01	-	<0.0001	0.01	0.29	<0.05	0.17	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.9	1.7	6.2	8.5	6.9	8	4
JB116_0-0.1	11/09/2020	<0.005	<0.0005	<0.05	0.35	<0.05	0.05	<0.01	0.01	<0.0001	0.01	0.16	0.08	0.12	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.9	1.7	5.7	8.5	6.8	7.7	4
JB24 2-2.1	30/08/2020	<0.005	<0.0005	<0.05	0.04	<0.05	0.04	<0.01	-	<0.0001	0.03	0.31	<0.05	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	1.7	5.1	7.4	6.7	7.4	4
JB41 0.1-0.2	30/08/2020	<0.005	<0.0005	<0.05	0.34	<0.05	0.04	<0.01	-	<0.0001	0.06	0.23	<0.05	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	1.7	5.2	8.5	8.6	9.1	4
JB83 0.1-0.2	30/08/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	5.8		8.9		-
JB84 1.4-1.5	30/08/2020	<0.005	<0.0005	<0.05	1.5	<0.05	0.09	<0.01	-	<0.0001	0.03	0.7	<0.05	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	1.7	5.1	7.2	6.7	7.8	4
JBSED-01	30/08/2020	<0.005	<0.0005	<0.05	0.02	<0.01	-	<0.01	-	<0.0001	<0.01	-	0.06	0.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	1.7	5.1	6.3	6.5		4
Statistical Summary																																						
Number of Results		6	6	6	6	6	5	6	1	6	6	5	6	6	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	6	7	7	6	7	5	6
Number of Detects		0	0	0	6	0	5	0	1	0	5	5	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	7	6	7	5	6
Minimum Concentration		<0.005	<0.0005	<0.05	0.02	<0.01	0.04	<0.01	0.01	<0.0001	<0.01	0.16	<0.05	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.9	1.7	5.1	6.3	6.5	7.4	4
Minimum Detect		ND	ND	ND	0.02	ND	0.04	ND	0.01	ND	0.01	0.16	0.06	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	1.7	5.1	6.3	6.5	7.4	4
Maximum Concentration		<0.005	<0.0005	<0.05	1.5	<0.05	0.09	<0.01	0.01	<0.0001	0.06	0.7	0.08	0.54	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6.1	1.7	6.2	8.5	8.9	9.1	4
Maximum Detect		ND	ND	ND	1.5	ND	0.09	ND	0.01	ND	0.06	0.7	0.08	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	1.7	6.2	8.5	8.9	9.1	4
Average Concentration		0.0025	0.00025	0.025	0.47	0.022	0.06	0.005		0.00005	0.024	0.34	0.04	0.19							0.0005											6	1.7	5.5	7.7	7.3	8	4
Median Concentration		0.0025	0.00025	0.025	0.345	0.025	0.05	0.005	0.01	0.00005	0.02	0.29	0.025	0.145	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	6.1	1.7	5.2	7.95	6.8	7.8	4
Standard Deviation		0	0	0	0.55	0.0082	0.023	0		0	0.021	0.21	0.024	0.18							0											0.1	0	0.44	0.92	1	0.65	0
Number of Guideline Exceedances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Env Stds Comments

#1:Hazardous Waste Management System: Identification and Listing of Hazardous Waste –Toxicity Characteristics Revisions, Final Rule (USEPA 2012b) for TCLP levels. Refer to NSW Waste Criteria Nov 2014 p.16 footnote 2
#2:Trigger value adopted from Chromium VI
#3:See Hazardous Waste Management System: Identification and Listing of Hazardous Waste –Toxicity Characteristics Revisions, Final Rule (USEPA 2012b) for TCLP levels. Refer to NSW Waste Criteria Nov 2014 p.16 footnote 2
#4:Calculated from Australian Drinking Water Guidelines (NHMRC 2011). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 10
#5:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4

Table C: Goundwater/Surface Water Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | Heavy Metals | | | | | | | | | TPHs (NEPC 1999) | | | | TRHs (NEPC 2013) | | | | | | BTEXN | | | | | PAHs | | | | | | | | |

Table C: Goundwater/Surface Water Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | Chlorinated Alkanes | | | | | | | | | | | | | | | | | | Chlorinated Alkenes | | | | | | | | | | | | | | Solvents | PFAS | | | | | | | | | | | | | | | | | |

Table C: Goundwater/Surface Water Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | Perfluorobutane sulfonic acid (PFBuS) | Perfluorooctanesulfonic acid (PFOS) | Perfluorooctanoic acid (PFOA) | Perfluorodecanesulfonic acid (PFDS) | 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) | 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) | Sum of PFHxS and PFOS | Sum of methoxyPFAS (PFHxS + PFOS + PFOA)* | Sum of US EPA PFAS (PFOS + PFOA)* | Sum of PFAS (WA DER List) | Sum of PFAS | 1,2,4-trimethylbenzene | 1,3,5-trimethylbenzene | n-butylbenzene | n-propylbenzene | p-isopropyltoluene | sec-butylbenzene | tert-butylbenzene | Total MAH | Bromobenzene | Isopropylbenzene | 1,2-dibromoethane | Bromochloromethane | Cyclohexane | Dibromomethane | Isobutylbenzene | Methyl-2-pentanone | Methyl Ethyl Ketone | 1,2,3-trichlorobenzene | 1,2,4-trichlorobenzene | 1,2-Dichlorobenzene | 1,3-dichlorobenzene | 1,4-dichlorobenzene | Chlorobenzene | Dibromochloromethane | Chloroform | Tribromomethane | Bromodichloromethane | Carbon disulfide | Ammonia as N | Nitrate (as N) | Nitrite (as N) | Nitrogen (Organic) | Nitrogen (Total) | Kjeldahl Nitrogen Total | Alkalinity (Carbonate as CaCO3) | Alkalinity (Hydroxide as CaCO3 | Alkalinity (Bicarbonate as CaCO3) | Alkalinity (total) as CaCO3 | Electrical Conductivity (lab) | pH (Lab) | Inorganics | Nitrite + Nitrate as N | Nitrogen (Total Oxidised) | Hexachlorobutadiene | TDS | TSS |
|---|---|---

Table D: Soil Vapour Analytical Results
Project Number: SE238
Project Name: Prospect Logistics Estate DGI

						TRHs (NEPC 2013)				BTEXN				Chlorinated Alkanes																				Chlorinated Alkenes															MAH							
						C6-C10	C6-C16	F1 (C6-C10 minus BTEX)	F2 (C16-C34 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene Total	Naphthalene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	1,4-dichlorobenzene	2,2-dichloropropane	Bromodichloromethane	Carbon tetrachloride	Dichlorofluoromethane	Hexachlorobutadiene	1,1-dichloroethene	1,2-dichloroethene	1,2-dichloropropene	1,3-dichloropropene	2-chlorotoluene	4-chlorotoluene	Chlorobenzene	Dibromochloromethane	Dichloromethane	Tetrachloroethene	Trichloroethene	Vinyl Chloride	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Ethylbenzene	m+p-xylene	o-xylene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	n-propylbenzene
EQL						mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
						2.85714285714	2.85714285714	2.85714285714	2.85714285714	0.071428571	0.071428571	0.071428571	0.214285714	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571
National Screening Levels for Commercial As-Is EPA 2020 [1]																																																						
NEPM 2013 Table 1A(1) Comm/Ind D Soil Vap VOC< HILs																230																																							
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Clay 0-1m								<<nm>>	<<nm>>	5	6500	1800	1200	6																																											
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Sand 0-1m								680[#]	920[#]	4	4800	1300	840	3																																											
Field_ID	**Location_Code**	**Sampled_Date_Time**	**SampleCode**	**Monitoring_Round**	**Lab_Report_Number**																																																	
VP01	VP01	29/08/2020	S20-Se02840	JBS&G 2020	741371	**6.14**	**10.1**	**6.14**	**10.1**	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP02	VP02	29/08/2020	S20-Se02842	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP03	VP03	29/08/2020	S20-Se02844	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP04	VP04	29/08/2020	S20-Se02846	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP07	VP07	29/08/2020	S20-Se02848	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP08	VP08	29/08/2020	S20-Se02850	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP09	VP09	29/08/2020	S20-Se02852	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP10	VP10	30/08/2020	S20-Se02854	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP11	VP11	30/08/2020	S20-Se02856	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP12	VP12	30/08/2020	S20-Se02858	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	**0.171**	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP13	VP13	30/08/2020	S20-Se02860	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP15	VP15	30/08/2020	S20-Se02862	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP16	VP16	30/08/2020	S20-Se02864	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP17	VP17	30/08/2020	S20-Se02866	JBS&G 2020	741371	**5.00**	<2.86	**5.00**	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP18	VP18	30/08/2020	S20-Se02868	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP19	VP19	30/08/2020	S20-Se03070	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP20	VP20	1/09/2020	S20-Se12751	JBS&G 2020	742620	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
VP21	VP21	1/09/2020	S20-Se12753	JBS&G 2020	742620	<2.86	<2.86	<2.86	<2.86	<0.0716	**0.129**	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
QA1	VP21	1/09/2020	S20-Se12755	JBS&G 2020	742620	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
FB (Field Blank)	-	1/09/2020	S20-Se12759	JBS&G 2020	742620	<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
FB@BLANK	-	30/08/2020	S20-Se02872	JBS&G 2020	741371	<2.86	<2.86	<2.86	<2.86	<0.0716	**0.200**	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716

Statistical Summary																																																					
Number of Results						21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Number of Detects						2	1	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	2	1	0	0	1	0	0	0	0	0	0	0	0
Minimum Concentration						<2.86	<2.86	<2.86	<2.86	<0.0716	<0.0716	<0.0716	<0.216	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
Minimum Detect						6.14	10.1	6.14	10.1	ND	0.129	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.271	ND	ND	ND	0.0657	0.0857	0.0857	ND	ND	0.0857	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration						5	10.1	5	10.1	<0.0714	0.2	<0.0716	<0.214	<0.0714	<0.0716	<0.0716	<0.0714	<0.0714	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716	4.57	<0.0716	<0.0716	<0.0716	0.357	0.171	0.0857	<0.0716	<0.0716	0.0857	<0.0716	<0.0716	<0.0716	<0.0716	<0.0716
Maximum Detect						5	10.1	5	10.1	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.57	ND	ND	ND	0.357	0.171	0.0857	ND	ND	0.0857	ND	ND	ND	ND	ND	ND	ND
Average Concentration						1.7	1.8	1.7	1.8	0.036	0.054	0.036	0.11	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.28	0.036	0.036	0.036	0.048	0.045	0.038	0.036	0.036	0.036	0.038	0.36	0.036	0.036	0.036	0.036	0.036
Median Concentration						1.43	1.43	1.43	1.43	0.0357	0.0357	0.0357	0.107	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357
Standard Deviation						0.95	1.9	0.95	1.9	0	0.048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.99	0	0	0	0.085	0.031	0.011	0	0	0.011	0	0	0	0	0	0	0
Number of Guideline Exceedances						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Env Vedc Comments

#1-To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#2-To obtain F2 subtract naphthalene from the >C10 - C16 fraction.
#3-US EPA (2020) indoor air based criteria have been adjusted by a factor of 0.005 to account for attenuation from the sub-surface to the indoor air and consistent with the factor adopted in the NEPM for derivation of soil vapour criteria for other petroleum hydrocarbon constituents.

Table D: Soil Vapour Analytical Results
Project Number: SE238
Project Name: Prospect Logistics Estate DGI

	Miscellaneous Hydrocarbons		Chlorinated Benzenes						Trihalomethanes				Organic Alcohols	Chlorinated Hydrocarbons
	1,1-Dichloroethene	Dichloromethane	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trichlorobenzene	1,3,5-Trimethylbenzene	2-Chlorotoluene	Bromodichloromethane	Chloroform	Tribromomethane	Dibromochloromethane	2-Propanol	Hexachlorobutadiene
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
EQL	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	0.071428571	1.428571429	0.071428571
Regional Screening Levels for Commercial Air US EPA 2020 ^														
NEPM 2013 Table 1A(3) Comm/Ind D Soil Vap VOC HSL														
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Clay 0-1m														
NEPM 2013 Table 1A(5) Comm/Ind D Soil Vapour HSL for Vapour Intrusion, Sand 0-1m														
Field_ID	Location_Code	Sampled_Date_Time	SampleCode	Monitoring_Round	Lab_Report_Number												
VP01	VP01	29/08/2020	S20-Se02082	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP02	VP02	29/08/2020	S20-Se02062	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP03	VP03	29/08/2020	S20-Se02063	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP06	VP06	29/08/2020	S20-Se02065	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP07	VP07	29/08/2020	S20-Se02066	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP08	VP08	29/08/2020	S20-Se02050	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP09	VP09	29/08/2020	S20-Se02052	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP10	VP10	30/08/2020	S20-Se02054	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP11	VP11	30/08/2020	S20-Se02056	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP12	VP12	30/08/2020	S20-Se02058	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP13	VP13	30/08/2020	S20-Se02060	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP15	VP15	30/08/2020	S20-Se02062	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP16	VP16	30/08/2020	S20-Se02064	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP17	VP17	30/08/2020	S20-Se02066	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP18	VP18	30/08/2020	S20-Se02068	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP19	VP19	30/08/2020	S20-Se02070	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP20	VP20	5/09/2020	S20-Se02751	JBS&G 2020	762620	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
VP21	VP21	5/09/2020	S20-Se02753	JBS&G 2020	762620	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
Dp1	VP21	5/09/2020	S20-Se02755	JBS&G 2020	762620	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
FB (Field Blank)	-	5/09/2020	S20-Se02759	JBS&G 2020	762620	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
FIELD BLANK	-	30/08/2020	S20-Se02072	JBS&G 2020	761371	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
Statistical Summary																	
Number of Results						21	21	21	21	21	21	21	21	21	21	21	21	21	21
Number of Detects						0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration						<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
Minimum Detect						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration						<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<1.43	<0.0714
Maximum Detect						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration						0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.72	0.036
Median Concentration						0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.715	0.0357
Standard Deviation						0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances						0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)						0	0	0	0	0	0	0	0	0	0	0	0	0	0

Env Sids Comments

#1:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#2:To obtain F2 subtract naphthalene from the >C10 - C16 fraction.
#3:US EPA (2020) indoor air based criteria have been adjusted by a factor of 0.005 to account for attenuation from the sub-surface

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | | | | Metals & Metalloids | | | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | | BTEXN | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |

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Project Number: 58238
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| | Metals & Metalloids | | | | | | | | | | TPHs (NEPC 1999) | | | | | TRHs (NEPC 2013) | | | | | | | | BTEXN | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Metals & Metalloids										TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN							Polycyclic Aromatic Hydrocarbons																			
	Arsenic (Total)	Cadmium	Chromium (Total)	Cobalt	Copper	Lead	Mercury (Inorganic)	Nickel	Titanium	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	BTEX (Total)	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Carcinogenic PAHs as B(a)P TEQ	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	PAHs (Total)	Pyrene	Benzo(b,j+k)fluoranthene	Total Positive PAHs
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1		1	1	0.1	1		1	20	20	50	50	50	50	100	100	50	50	20	20	0.1		0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.05	0.5	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.05
ANZG (2019) - Sediment Quality DGVs	20	1.5	80		65	50	0.15	21		200	280[#1]	280[#1]	280[#1]	280[#1]	280																																		
NEPM 2013 EIL - Commercial Industrial (Specific)	160		310[#2]		320[#3]	1800		730[#4]		620[#5]																				370																			
NEPM 2013 ESL Commercial and Industrial, Fine Soil																	2500[#6]	6600[#6]		170[#7]		215[#7]	95[#6]		185[#6]	135[#6]			95[#6]						1.4[#6]													
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																1000[#10]	5000	10000			800[#11]																													
NEPM 2013 Soil HIL D	3000[#12]	900	3600[#13]	4000	240000	1500[#14]	730[#15]	6000		400000																																40[#16]				4000[#17]			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																				999995[#19]		310[#20]	4		999999	999999			999999	999999																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																				999995[#19]		480[#20]	6		999999	999999			999999	999999																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																				999995[#19]		999999[#20]	9		999999	999999			999999	999999																			

Field_ID	Sampled_Date-Time	Lab_Report_Number	Matrix_Type																																																
JBS&G (2019b)																																																		
EMB1	30/05/2019	658838	Soil	<2	<0.4	190	-	66	11	<0.1	130	-	160	<20	22	57	91	170	<50	120	<100	120	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
FRAG01	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA01	30/05/2019	658838	Soil	13	2.4	130	-	220	430	0.2	150	-	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
HA02	30/05/2019	658838	Soil	22	4	120	-	360	930	0.3	170	-	2400	<20	<20	53	<50	53	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
HA03	30/05/2019	658838	Soil	15	2	160	-	250	1100	0.2	180	-	1200	<20	20	120	110	250	<50	180	<100	180	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
HA04	30/05/2019	658838	Soil	4.5	0.7	160	-	120	150	<0.1	140	-	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
SS01	30/05/2019	658838	Soil	3.2	<0.4	140	-	66	16	<0.1	120	-	92	<20	<20	130	110	240	<50	210	<100	210	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
SS02	30/05/2019	658838	Soil	2.5	<0.4	91	-	49	18	<0.1	66	-	80	<20	30	180	210	420	<50	340	130	470	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	0.5	<0.5	4.2	0.7	-	-
SS03	30/05/2019	658838	Soil	<2	<0.4	170	-	84	20	<0.1	120	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
SS04	30/05/2019	658838	Soil	2.7	<0.4	99	-	67	16	<0.1	84	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	1.15	0.7	<0.5	0.5	<0.5	4.2	0.7	-	-
SS05	30/05/2019	658838	Soil	2.9	<0.4	86	-	69	23	<0.1	78	-	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	3.5	7.5	7.1	3.4	5.9	1.3	10.98	15	0.6	5.2	10	89.3	13	-	-
SS06	3/06/2019	659015	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS07	3/06/2019	659015	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW01 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	<20	<20	230	160	390	<50	350	<100	350	<50	<20	<20	<0.1	-	0.6	<0.1	1.2	3.2	4.4	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW01 1.9-1.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW01 6.9-7.0	30/05/2019	658838	Soil	<2	<0.4	94	-	53	<5	<0.1	310	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
MW02 0.9-1.0	30/05/2019	658838	Soil	4	<0.4	220	-	70	20	<0.1	270	-	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
MW02 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW03 0.9-1.0	30/05/2019	658838	Soil	<2	<0.4	36	-	22	7.3	<0.1	53	-	75	<40	52	420	340	812	87	660	170	917	87	<40	<40	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.4	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	2.2	<0.5	<0.5	2.2	<0.5	-	-
QA02	30/05/2019	658838	Soil	<2	<0.4	94	-	61	<5	<0.1	280	-	100	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
QC02	30/05/2019	218764	Soil	<4	<0.4	34	-	44	3	<0.1	140	-	42	<25	<50	<50	<100	<100	<50	<100	<100	<50	<50	<25	-	<0.2	-	<1	<0.5	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.172	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.2	<0.05
MW03 7.9-8.0	30/05/2019	658838	Soil	<2	<0.4	120	-	46	<5	<0.1	340	-	98	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP01 0.3-0.4	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 0-0.1	30/05/2019	658838	Soil	2.2	<0.4	280	-	62	5.2	<0.1	180	-	100	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP01 1.4-1.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 1-1.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 1-1.1	30/05/2019	658838	Soil	<2	<0.4	160	-	51	<5	<0.1	430	-	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP03 0-0.1	30/05/2019	658838	Soil	4.9	<0.4	130	-	38	11	<0.1	110	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP04 0.5-0.6	30/05/2019	658838	Soil	3	<0.4	270	-	37	6.5	<0.1	270	-	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP04 0-0.1	30/05/2019	658838	Soil	<2	<0.4	15	-	5.2	5.4	<0.1	6.7	-	30	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP05 0-0.1	30/05/2019	658838	Soil	5.6	<0.4	510	-	95	19	<0.1	440	-	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	0.5	<0.5	<0.5	<0.5	0.5	<0.5	-	-
TP05 2-2.2	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 0-0.1	30/05/2019	658838	Soil	3.1	<0.4	550	-	87	7.3	<0.1	550	-	240	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
QA01	30/05/2019	658838	Soil	2.3	<0.4	470	-	65	6.7	<0.1	400	-	110	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
QC01	30/05/2019	218764	Soil	<4	<0.4	220	-	36	6	<0.1	160	-	65	<25	<50	<100	<100	-	<50	<100	<100	<50	<50	<25	-	<0.2	-	<1	<0.5	<1	<2	<3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.172	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.2	<0.05
TP06 1.4-1.5	30/05/2019	658838	Soil	<2	<0.4	200	-	47	<5	<0.1	510	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP07 0-0.1	30/05/2019	658838	Soil	<2	<0.4	150	-	36	<5	<0.1	130	-	70	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP08 0-0.1	30/05/2019	658838	Soil	6.5	<0.4	160	-	55	17	<0.1	180	-	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP09 0.4-0.5	30/05/2019	658838	Soil	2.2	<0.4	49	-	41	14	<0.1	86	-	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP10 0-0.1	30/05/2019	658838	Soil	<2	<0.4	110	-	85	12	<0.1	100	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP10 1-1.1	30/05/2019	658838	Soil	<2	<0.4	150	-	52	<5	<0.1	340	-	100	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP11 0.3-0.4	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 0-0.1	30/05/2019	658838	Soil	<2	<0.4	170	-	90	6	<0.1	130	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP11 2.7-2.8	30/05/2019	658838	Soil	<2	<0.4	120	-	44	<5	<0.1	320	-	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP12 0.5-0.6	30/05/2019	658838	Soil	<2	<0.4	90	-	50	<5	<0.1	260	-	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP12 0-0.1	30/05/2019	658838	Soil	<2	<0.4	160	-	71	14	<0.1	150	-	110	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
AQ01 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ02 0.3-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ03 0.1-0.95	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ04 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ05 0-0.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ05 2.4-3.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ06 0.4-1.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ07 0-0.2	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ08 0.9-1.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ08 0-0.9	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 0.3-1.3	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 0-0.3	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 1.5-2.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ10 0.4-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ10 0-0.4	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ11 0.6-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ11 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ12 0.1-1.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ12 0-0.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ13 0.6-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ13 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ14 0-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ14 1-1.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ15 0.5-1.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ15 0-0.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Metals & Metalloids										TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN								Polycyclic Aromatic Hydrocarbons																			
	Arsenic (Total)	Cadmium	Chromium (Total)	Cobalt	Copper	Lead	Mercury (Inorganic)	Nickel	Titanium	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	BTEX (Total)	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Carcinogenic PAHs as B(a)P TEQ	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	PAHs (Total)	Pyrene	Benzo(b,j+k)fluoranthene	Total Positive PAHs
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1		1	1	0.1	1		1	20	20	50	50	50	50	100	100	50	50	20	20	0.1		0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.05	0.5	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.05
ANZG (2019) - Sediment Quality DGVs	20	1.5	80		65	50	0.15	21		200	280[#1]	280[#1]	280[#1]	280[#1]	280															370																			
NEPM 2013 EIL - Commercial Industrial (Specific)	160		310[#2]		320[#3]	1800		730[#4]		620[#5]																																							
NEPM 2013 ESL Commercial and Industrial, Fine Soil																	2500[#6]	6600[#6]		170[#7]		215[#7]	95[#6]		185[#6]	135[#6]			95[#6]						1.4[#6]														
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																	
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																	
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																1000[#10]	5000	10000			800[#11]																														
NEPM 2013 Soil HIL D	3000[#12]	900	3600[#13]	4000	240000	1500[#14]	730[#15]	6000		400000																																40[#16]				4000[#17]			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																				999995[#19]		310[#20]	4		999999	999999			999999	999999																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																				999995[#19]		480[#20]	6		999999	999999			999999	999999																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																				999995[#19]		999999[#20]	9		999999	999999			999999	999999																			

Field_ID	Sampled_Date-Time	Lab_Report_Number	Matrix_Type																																																
JBS&G (2020)																																																		
TP200_0.0-0.1	9/03/2020	707966	SOIL	9.3	<0.4	34	-	55	26	<0.1	25	-	60	<20	<20	170	87	257	<50	230	<100	230	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP201_0.9-1.0	9/03/2020	707966	SOIL	22	<0.4	6.7	-	40	26	<0.1	8.8	-	41	<20	<20	93	<50	93	<50	100	<100	100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP202_0.0-0.1	9/03/2020	707966	SOIL	7.9	<0.4	13	-	24	22	<0.1	10	-	30	<20	<20	90	<50	90	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP203_0.5-0.6	9/03/2020	707966	SOIL	10	<0.4	5.5	-	41	20	<0.1	11	-	45	<20	<20	130	<50	130	<50	130	<100	130	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP204_0.0-0.1	9/03/2020	707966	SOIL	4.5	<0.4	6.6	-	75	17	0.1	10	-	37	<20	<20	95	<50	95	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP205_0.4-0.5	9/03/2020	707966	SOIL	9.3	<0.4	6.7	-	49	22	<0.1	8.8	-	30	<20	<20	61	<50	61	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP206_0.0-0.1	9/03/2020	707966	SOIL	11	<0.4	55	-	47	26	<0.1	34	-	79	<20	<20	100	<50	100	<50	120	<100	120	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP207_0.0-0.1	9/03/2020	707966	SOIL	<2	<0.4	400	-	65	<5	<0.1	180	-	89	<20	<20	84	<50	84	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP208_0.9-1.0	9/03/2020	707966	SOIL	<2	<0.4	280	-	64	<5	<0.1	440	-	120	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP209_0.9-1.0	9/03/2020	707966	SOIL	<2	<0.4	230	-	54	<5	<0.1	330	-	95	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP210_0.4-0.5	9/03/2020	707966	SOIL	<2	<0.4	110	-	57	<5	<0.1	280	-	93	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
TP211_0.0-0.1	9/03/2020	707966	SOIL	4.5	<0.4	170	-	95	11	<0.1	140	-	140	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	-	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-

Env Stds Comments
#1:Adopted from TPHs total
#2:TV taken for Chromium (III), Clay Content of 1%
#3:TV taken for pH 6
#4:TV taken for CEC 30
#5:TV taken for pH 6 and CEC 30
#6:ESLs are of low reliability.
#7:ESLs are of moderate reliability.
#8:Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.
#9:The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures (refer Section 4.10). This screening level is not applicable to free fibres.
#10:Management limits of BTEX and naphthalene are not available, hence should not be subtracted from the relevant fractions to obtain F1 and F2.
#11:Limits applied after consideration of relevant ESLs and HSLs
#12:Key limitations of HSL should be referred to prior to application in Friebel and Nadebaum (2011b and 2011d).
#13:TV adopted from Chromium (VI)
#14:Assumptions of HSL are presented in Friebel and Nadebaum (2011a and 2011b).
#15:Refer to HSL and soil saturation concentration limit.
#16:Refer to Section 8.2 and Appendix J in Friebel and Nadebaum (2011a).
#17:TV maybe be multiplied by a factor to account for biodegradation of vapour
#18:HIL relates to non-dioxin-like PCBs only. If PCB source is suspected a site-specific assessment should be untertaken
#19:To obtain F2 subtract naohthalene from >C10-C16.
#20:To obtain F1 subtract the sum of BTEX from C6-C10.

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

				Organochlorine Pesticides																								Organophosphorus Pesticides																Carbamate & Other Pesticides				VOC	Chlorinated Alkanes																													
				4,4-DDE	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	DDD	DDT	DDT+DDE+DDD (Sum of Total)	Dieldrin	delta-BHC	Endosulfan alpha	Endosulfan beta	Endosulfan sulphate	Endrin	Endrin aldehyde	gamma-Chlordane	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane	Methoxychlor	Toxaphene	Azinphos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Total MAH*	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.1	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	1																	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ANZG (2019) - Sediment Quality DGVs																		

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | Organophosphorus Pesticides | | | | | | | | | | | | | | | | | | Carbamate & Other Pesticides | | | | VOC | Chlorinated Alkanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

| | Organochlorine Pesticides | | |

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Organochlorine Pesticides																							Organophosphorus Pesticides													Carbamate & Other Pesticides				VOC	Chlorinated Alkanes																									
	4,4-DDE	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	DDD	DDT	Dieldrin	DDT+DDE+DDD (Sum of Total)	delta-BHC	Endosulfan alpha	Endosulfan beta	Endosulfan sulphate	Endrin	Endrin aldehyde	gamma-Chlordane	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane	Methoxychlor	Toxaphene	Azinphos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Total MAH*	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.1	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.1	1																0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ANZG (2019) - Sediment Quality DGVs																																																															
NEPM 2013 EIL - Commercial Industrial (Specific)									640																																																							
NEPM 2013 ESL Commercial and Industrial, Fine Soil																																																														
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																													
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																													
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																																																													
NEPM 2013 Soil HIL D			45				530				3600					100				50			2500	160			2000																																					
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																																																													
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																																																													
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																																																													

| Field_ID | Sampled_Date-Time | Lab_Report_Number | Matrix_Type | | | | | | | | | | | | | | | | | | |

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Chlorinated Alkenes														Solvents	Polychlorinated Biphenyls								Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				Misc Chemicals
	1,1-dichloroethene	1,1-dichloropropene	1,3-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	1		1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	0.5	0.5	1	1	1	0.5	1	0.5	0.5	0.5	0.5	1	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	1
ANZG (2019) - Sediment Quality DGVs																																																	
NEPM 2013 EIL - Commercial Industrial (Specific)																																																	
NEPM 2013 ESL Commercial and Industrial, Fine Soil																																																	
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																	
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																	
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																																																	
NEPM 2013 Soil HIL D																						7[#18]																												80				
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																																																	
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																																																	
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																																																	
Field_ID	**Sampled_Date-Time**	**Lab_Report_Number**	**Matrix_Type**																																														
Coffey (2013)																																																	
BH01 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.0-0.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.0-0.1	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH05 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.16-0.26	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.08-0.13	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-0.3	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH07 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH09 0.0-0.1	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH10 0.16-0.26	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.19-0.29	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.15-0.25	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH17 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH17 0.5-6.0	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH18 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH19 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 0.0-0.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH21 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 3.0-3.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 3.9-4.0	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.0-0.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.08-0.18	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.08-0.18	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.1-1.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH26 0.18-0.28	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.17-0.27	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
BH27 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 0.16-0.26	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.4-0.5	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.08-0.18	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.09-0.19	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.08-0.18	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.4-0.5	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP3	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
DUP3A	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-
DUP5	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP5A	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP7A	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED1	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED2	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED3	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

				Chlorinated Alkenes														Solvents	Polychlorinated Biphenyls								Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				Misc Chemicals
				1,1-dichloroethene	1,1-dichloropropene	1,3-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	1		1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	0.5	0.5	1	1	1	0.5	1	0.5	0.5	0.5	1	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	1
ANZG (2019) - Sediment Quality DGVs																																																							
NEPM 2013 EIL - Commercial Industrial (Specific)																																																					
NEPM 2013 ESL Commercial and Industrial, Fine Soil																																																					
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																					
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																					
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																																																					
NEPM 2013 Soil HIL D																									7[#18]																										80				
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																																																					
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																																																					
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																																																					
Field_ID	**Sampled_Date-Time**	**Lab_Report_Number**	**Matrix_Type**																																																			
DLA (2017)																																																					
BH1 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH1 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH4 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH4 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH4 5.9-6.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH6 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH9 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 2.5-2.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 7.4-7.5	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH3 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 5.9-6.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA15 0.2-0.4	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA15 0-0.2	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA20 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA20 0.5-0.6	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA23 0.1-0.2	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA23 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA5 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA5 0.4-0.5	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD2	2/08/2017	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD3	2/08/2017	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

				Chlorinated Alkenes													Solvents	Polychlorinated Biphenyls								Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				Misc Chemicals
				1,1-dichloroethene	1,1-dichloropropene	1,3-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	1		1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	0.5	0.5	1	1	1	0.5	1	0.5	0.5	0.5	0.5	1	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	1
ANZG (2019) - Sediment Quality DGVs																																																				
NEPM 2013 EIL - Commercial Industrial (Specific)																																																			
NEPM 2013 ESL Commercial and Industrial, Fine Soil																																																			
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																																			
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																																			
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																																																			
NEPM 2013 Soil HIL D																									7#18																										80				
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																																																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																																																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																																																			
Field_ID	**Sampled_Date-Time**	**Lab_Report_Number**	**Matrix_Type**																																																
JBS&G (2019b)																																																			
EMB1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
FRAG01	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA01	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA02	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
HA03	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
HA04	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS01	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
SS02	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
SS03	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS04	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS05	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
SS06	3/06/2019	659015	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS07	3/06/2019	659015	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW01 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
MW01 1.9-1.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW01 6.9-7.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02 0.9-1.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<1	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-
MW03 0.9-1.0	30/05/2019	658838	Soil	<1	-	<2	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<5	<5	<5	<5	<5	<1	<1	-	<1	<1	-	-	-	<1	<1	-	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	-
QA02	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
QC02	30/05/2019	218764	Soil	<1	<1	<2	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW03 7.9-8.0	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
TP01 0.3-0.4	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
TP01 1.4-1.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 1-1.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
TP02 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP02 1-1.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03 0.5-0.6	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
TP04 0.5-0.6	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05 2-2.2	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-
TP06 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
QA01	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
QC01	30/05/2019	218764	Soil	<1	<1	<2	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	<1
TP06 1.4-1.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
TP08 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 0.4-0.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10 1-1.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
TP11 0.3-0.4	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
TP11 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 2.7-2.8	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12 0.5-0.6	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12 0-0.1	30/05/2019	658838	Soil	<0.5	-	<1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	-	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	-
AQ01 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ02 0.3-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ03 0.1-0.95	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ04 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ05 0-0.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ05 2.4-3.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ06 0.4-1.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ07 0-0.2	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ08 0.9-1.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ08 0-0.9	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 0.3-1.3	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 0-0.3	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ09 1.5-2.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ10 0.4-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ10 0-0.4	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ11 0.6-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ11 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ12 0.1-1.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ12 0-0.1	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ13 0.6-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ13 0-0.6	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ14 0-1.0	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ14 1-1.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ15 0.5-1.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQ15 0-0.5	14/06/2019	660830	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Chlorinated Alkenes														Solvents	Polychlorinated Biphenyls								Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes							Trihalomethanes				Misc Chemicals
	1,1-dichloroethene	1,1-dichloropropene	1,3-dichloropropane	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene
	mg/kg	mg/kg	mg/kg

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Asbestos											Ionic Balance			Other	
	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Total Asbestos#1	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water	% Moisture 103oC	Moisture
	gs	%w/w	%w/w	gs	gs	gs	gs	gs	gs	gs	g/kg	meq/100g	µS/cm	ph Units	%	%
EQL											0.1	0.05	5	0.1	1	0.1
ANZG (2019) - Sediment Quality DGVs																
NEPM 2013 EIL - Commercial Industrial (Specific)																
NEPM 2013 ESL Commercial and Industrial, Fine Soil																
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D		0.05[ee]														
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL			0.001[ff]													
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																
NEPM 2013 Soil HIL D																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																

Field_ID	Sampled_Date-Time	Lab_Report_Number	Matrix_Type																
Coffey (2013)																			
BH01 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.0-0.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.0-0.1	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 0.16-0.26	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.08-0.13	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-0.3	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH08 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.0-0.1	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.16-0.26	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.19-0.29	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.13-0.23	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.15-0.25	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.5-6.0	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 0.0-0.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 3.0-3.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 3.9-4.0	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22 0.0-0.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.08-0.18	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH23 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.08-0.18	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 0.5-0.6	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24 1.1-1.2	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH25 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH26 0.18-0.28	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.17-0.27	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH27 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH28 0.16-0.26	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH29 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH30 0.19-0.29	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH31 0.4-0.5	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH32 0.08-0.18	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH33 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 0.09-0.19	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH34 1.0-1.1	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.08-0.18	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH35 0.4-0.5	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH36 0.0-0.2	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH37 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH38 0.4-0.5	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH39 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH40 0.0-0.2	21/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP2	18/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP3	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP3A	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP5	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP5A	19/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP7A	20/02/2013	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED1	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED2	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED3	21/02/2013	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

				Asbestos											Ionic Balance			Other	
				Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Total Asbestos#1	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water	% Moisture 103oC	Moisture
				g	%w/w	%w/w	g	g	g	g	g	g	g	g/kg	meq/100g	µS/cm	ph Units	%	%
EQL														0.1	0.05	5	0.1	1	0.1
ANZG (2019) - Sediment Quality DGVs																			
NEPM 2013 EIL - Commercial Industrial (Specific)																			
NEPM 2013 ESL Commercial and Industrial, Fine Soil																			
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D					0.05[88]														
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL						0.001[89]													
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																			
NEPM 2013 Soil HIL D																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																			
Field_ID	**Sampled_Date-Time**	**Lab_Report_Number**	**Matrix_Type**																
DLA (2017)																			
BH1 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
BH1 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
BH4 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6
BH4 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
BH4 5.9-6.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
BH6 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
BH6 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
BH7 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH7 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
BH8 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
BH8 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5
BH9 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
BH9 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
BH10 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
BH10 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
BH11 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
BH11 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
BH12 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
BH12 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8
BH13 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH13 2.5-2.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH13 7.4-7.5	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
BH14 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
BH14 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
BH16 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
BH16 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
BH17 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
BH17 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
BH18 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1
BH18 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2
BH19 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH19 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
BH2 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
BH2 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
BH21 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3
BH21 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1
BH22 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
BH22 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH24 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
BH24 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
BH25 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
BH25 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
BH26 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6
BH26 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
BH27 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
BH27 1.9-2.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
BH28 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
BH28 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
BH29 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
BH29 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
BH3 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
BH3 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
BH30 0.5-0.6	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
BH30 5.9-6.0	7/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
BH31 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
BH31 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1
BH32 0.5-0.6	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
BH32 1.9-2.0	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
HA15 0.2-0.4	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
HA15 0-0.2	8/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4
HA20 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
HA20 0.5-0.6	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
HA23 0.1-0.2	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
HA23 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
HA5 0.2-0.3	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
HA5 0.4-0.5	9/02/2017	-	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9
SD2	2/08/2017	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD3	2/08/2017	-	Sediment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

		Asbestos											Ionic Balance			Other	
		Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Total Asbestos#1	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water	% Moisture 103oC	Moisture
		g	%w/w	%w/w	g	g	g	g	g	g	g	g/kg	meq/100g	µS/cm	ph Units	%	%
EQL												0.1	0.05	5	0.1	1	0.1
ANZG (2019) - Sediment Quality DGVs																	
NEPM 2013 EIL - Commercial Industrial (Specific)																	
NEPM 2013 ESL Commercial and Industrial, Fine Soil																	
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D			0.05[88]														
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL				0.001[89]													
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																	
NEPM 2013 Soil HIL D																	
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																	
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																	
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																	
Field_ID	**Sampled_Date-Time**	**Lab_Report_Number**	**Matrix_Type**														
JBS&G (2019b)																	
EMB1	30/05/2019	658838	Soil	561	0	0	0	0	0	0	0	0	-	-	-	-	9	-
FRAG01	30/05/2019	658838	Soil	77	0	0	0	0	0	0	0	0	-	-	-	-	-	-
HA01	30/05/2019	658838	Soil	548	0	0	0	0	0	0	0	0	-	-	-	-	6.8	-
HA02	30/05/2019	658838	Soil	747	0	0	0	0	0	0	0	0	-	-	-	-	9.4	-
HA03	30/05/2019	658838	Soil	615	0	0	0	0	0	0	0	0	-	-	-	-	13	-
HA04	30/05/2019	658838	Soil	845	0	0	0	0	0	0	0	0	-	-	-	-	9.4	-
SS01	30/05/2019	658838	Soil	484	0	0	0	0	0	0	0	0	-	-	-	-	9.4	-
SS02	30/05/2019	658838	Soil	490	0	0	0	0	0	0	0	0	-	-	-	-	12	-
SS03	30/05/2019	658838	Soil	577	0	0	0	0	0	0	0	0	-	-	-	-	21	-
SS04	30/05/2019	658838	Soil	492	0	0	0	0	0	0	0	0	-	-	-	-	15	-
SS05	30/05/2019	658838	Soil	560	0	0	0	0	0	0	0	0	-	-	-	-	9.5	-
SS06	3/06/2019	659015	Soil	1146	0	0	0	0	0	0	0	0	-	-	-	-	-	-
SS07	3/06/2019	659015	Soil	874	0	0	0	0	0	0	0	0	-	-	-	-	-	-
MW01 0-0.1	30/05/2019	658838	Soil	359	0	0	0	0	0	0	0	0	-	-	-	-	12	-
MW01 1.9-1.0	30/05/2019	658838	Soil	825	0	0	0	0	0	0	0	0	-	-	-	-	-	-
MW01 6.9-7.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
MW02 0.9-1.0	30/05/2019	658838	Soil	877	0	0	0	0	0	0	0	0	-	-	-	-	11	-
MW02 0-0.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-
MW03 0.9-1.0	30/05/2019	658838	Soil	136	0	0	0	0	0	0	0	0	-	-	-	-	14	-
QA02	30/05/2019	658838	Soil	809	0	0	0	0	0	0	0	0	-	-	-	-	8.2	-
QC02	30/05/2019	218764	Soil	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	12
MW03 7.9-8.0	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-
TP01 0.3-0.4	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	45	94	7.1	13	-
TP01 0-0.1	30/05/2019	658838	Soil	660	0	0	0	0	0	0	0	0	-	-	-	-	16	-
TP01 1.4-1.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	62	530	7.1	14	-
TP01 1-1.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
TP02 0-0.1	30/05/2019	658838	Soil	487	0	0	0	0	0	0	0	0	-	-	-	-	17	-
TP02 1-1.1	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP03 0-0.1	30/05/2019	658838	Soil	492	0	0	0	0	0	0	0	0	-	-	-	-	17	-
TP04 0.5-0.6	30/05/2019	658838	Soil	530	0	0	0	0	0	0	0	0	-	-	-	-	11	-
TP04 0-0.1	30/05/2019	658838	Soil	1069	0	0	0	0	0	0	0	0	-	-	-	-	<1	-
TP05 0-0.1	30/05/2019	658838	Soil	490	0	0	0	0	0	0	0	0	-	-	-	-	16	-
TP05 2-2.2	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP06 0-0.1	30/05/2019	658838	Soil	549	0	0	0	0	0	0	0	0	-	-	-	-	19	-
QA01	30/05/2019	658838	Soil	534	0	0	0	0	0	0	0	0	-	-	-	-	16	-
QC01	30/05/2019	218764	Soil	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	21
TP06 1.4-1.5	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP07 0-0.1	30/05/2019	658838	Soil	758	0	0	0	0	0	0	0	0	-	-	-	-	16	-
TP08 0-0.1	30/05/2019	658838	Soil	612	0	0	0	0	0	0	0	0	-	-	-	-	11	-
TP09 0.4-0.5	30/05/2019	658838	Soil	888	0	0	0	0	0	0	0	0	-	-	-	-	7.3	-
TP10 0-0.1	30/05/2019	658838	Soil	713	0	0	0	0	0	0	0	0	-	-	-	-	7.4	-
TP10 1-1.1	30/05/2019	658838	Soil	846	0	0	0	0	0	0	0	0	-	-	-	-	9.5	-
TP11 0.3-0.4	30/05/2019	658838	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-
TP11 0-0.1	30/05/2019	658838	Soil	532	0	0	0	0	0	0	0	0	-	-	-	-	11	-
TP11 2.7-2.8	30/05/2019	658838	Soil	764	0	0	0	0	0	0	0	0	-	-	-	-	5.7	-
TP12 0.5-0.6	30/05/2019	658838	Soil	1410	0	0	0	0	0	0	0	0	-	-	-	-	9.6	-
TP12 0-0.1	30/05/2019	658838	Soil	465	0	0	0	0	0	0	0	0	-	-	-	-	15	-
AQ01 0-0.6	14/06/2019	660830	Soil	582	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ02 0.3-1.0	14/06/2019	660830	Soil	495	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ03 0.1-0.95	14/06/2019	660830	Soil	598	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ04 0-0.6	14/06/2019	660830	Soil	553	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ05 0-0.1	14/06/2019	660830	Soil	585	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ05 2.4-3.0	14/06/2019	660830	Soil	612	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ06 0.4-1.1	14/06/2019	660830	Soil	773	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ07 0-0.2	14/06/2019	660830	Soil	458	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ08 0.9-1.6	14/06/2019	660830	Soil	630	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ08 0-0.9	14/06/2019	660830	Soil	670	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ09 0.3-1.3	14/06/2019	660830	Soil	697	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ09 0-0.3	14/06/2019	660830	Soil	448	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ09 1.5-2.1	14/06/2019	660830	Soil	720	0	0	0	0	0	0	0	0	-	-	-	-	-	-
AQ10 0.4-1.0	14/06/2019	660830	Soil	625	0	0.0002	0	0	0	0	0.004	0.001	0.001	-	-	-	-	-
AQ10 0-0.4	14/06/2019	660830	Soil	644	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ11 0.6-1.0	14/06/2019	660830	Soil	708	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ11 0-0.6	14/06/2019	660830	Soil	740	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ12 0.1-1.1	14/06/2019	660830	Soil	640	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ12 0-0.1	14/06/2019	660830	Soil	586	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ13 0.6-1.0	14/06/2019	660830	Soil	672	0	0.0016	0	0	0	0	0.024	0.0106	0.0106	-	-	-	-	-
AQ13 0-0.6	14/06/2019	660830	Soil	708	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ14 0-1.0	14/06/2019	660830	Soil	711	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ14 1-1.5	14/06/2019	660830	Soil	720	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ15 0.5-1.5	14/06/2019	660830	Soil	434	0	0	0	0	0	0	0	0	0	-	-	-	-	-
AQ15 0-0.5	14/06/2019	660830	Soil	667	0	0.0006	0	0	0	0	0.004	0.004	0.004	-	-	-	-	-

Table E: Historic Soil Analytical Results
Project Number: 58238
Project Name: Prospect Logistics Estate

	Asbestos											Ionic Balance			Other	
	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Total Asbestos#1	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water	% Moisture 103oC	Moisture
	gs	%w/w	%w/w	gs	gs	gs	gs	gs	gs	gs	g/kg	meq/100g	µS/cm	ph Units	%	%
EQL											0.1	0.05	5	0.1	1	0.1
ANZG (2019) - Sediment Quality DGVs																
NEPM 2013 EIL - Commercial Industrial (Specific)																
NEPM 2013 ESL Commercial and Industrial, Fine Soil																
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D		0.05[#8]														
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL			0.001[#9]													
NEPM 2013 Mgnt Limits - Commercial and Industrial, Fine																
NEPM 2013 Soil HIL D																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 0 to <1m																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 1 to <2m																
NEPM 2013 Soil HSL D for Vapour Intrusion - Clay 2 to <4m																

Field_ID	Sampled_Date-Time	Lab_Report_Number	Matrix_Type															
JBS&G (2020)																		
TP200_0.0-0.1	9/03/2020	707966	SOIL	272	0	0	0	0	0	0	0	0	-	19	31	5.6	12	-
TP201_0.9-1.0	9/03/2020	707966	SOIL	427	0	0	0	0	0	0	0	0	-	-	-	-	12	-
TP202_0.0-0.1	9/03/2020	707966	SOIL	352	0	0	0	0	0	0	0	0	-	-	-	-	14	-
TP203_0.5-0.6	9/03/2020	707966	SOIL	255	0	0	0	0	0	0	0	0	-	-	-	-	12	-
TP204_0.0-0.1	9/03/2020	707966	SOIL	381	0	0	0	0	0	0	0	0	-	2.9	16	5.2	14	-
TP205_0.4-0.5	9/03/2020	707966	SOIL	451	0	0	0	0	0	0	0	0	-	-	-	-	14	-
TP206_0.0-0.1	9/03/2020	707966	SOIL	451	0	0	0	0	0	0	0	0	-	-	-	-	17	-
TP207_0.0-0.1	9/03/2020	707966	SOIL	271	0	0	0	0	0	0	0	0	-	-	-	-	25	-
TP208_0.9-1.0	9/03/2020	707966	SOIL	410	0	0	0	0	0	0	0	0	-	-	-	-	21	-
TP209_0.9-1.0	9/03/2020	707966	SOIL	427	0	0	0	0	0	0	0	0	-	-	-	-	18	-
TP210_0.4-0.5	9/03/2020	707966	SOIL	520	0	0	0	0	0	0	0	0	-	-	-	-	15	-
TP211_0.0-0.1	9/03/2020	707966	SOIL	380	0	0	0	0	0	0	0	0	-	-	-	-	23	-

Env Stds Comments
#1:Adopted from TPHs total
#2:TV taken for Chromium (III), Clay Content of 1%
#3:TV taken for pH 6
#4:TV taken for CEC 30
#5:TV taken for pH 6 and CEC 30
#6:ESLs are of low reliability.
#7:ESLs are of moderate reliability.
#8:Commercial/industrial D includes premises such as shops, offices, factories and industr
#9:The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friat
#10:Management limits of BTEX and naphthalene are not available, hence should not be
#11:Limits applied after consideration of relevant ESLs and HSLs
#12:Key limitations of HSL should be referred to prior to application in Friebel and Nadeb
#13:TV adopted from Chromium (VI)
#14:Assumptions of HSL are presented in Friebel and Nadebaum (2011a and 2011b).
#15:Refer to HSL and soil saturation concentration limit.
#16:Refer to Section 8.2 and Appendix J in Friebel and Nadebaum (2011a).
#17:TV maybe be multiplied by a factor to account for biodegradation of vapour
#18:HIL relates to non-dioxin-like PCBs only. If PCB source is suspected a site-specific asse
#19:To obtain F2 subtract naohthalene from >C10-C16.
#20:To obtain F1 subtract the sum of BTEX from C6-C10.

Appendix C Photographic Log

PHOTO 1: FORMER BRICKWORKS OFFICE, DIESEL UST VENT PIPE AFFIXED TO NORTH EASTERN CORNER



PHOTO 2: APPROXIMATE LOCATION OF UST (IDENTIFIED VIA GPR RADAR)



PHOTO 3: WORKSHOP AREA IN THE SOUTH EAST OF PLANT 2, VARIOUS CHEMICAL/HYDROCARBON STORAGE



PHOTO 4: COLOUR FARM, ASTS AND OXIDE TANKS ADJACENT TO THE SOUTH WEST OF PLANT 2



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 5: OPEN AREA OF PLANT 2 (EASTERN EXTENT) WITH EXPOSED ACM ROOF



PHOTO 6: INTERNAL OF PLANT 2, VARIOUS MACHINERY

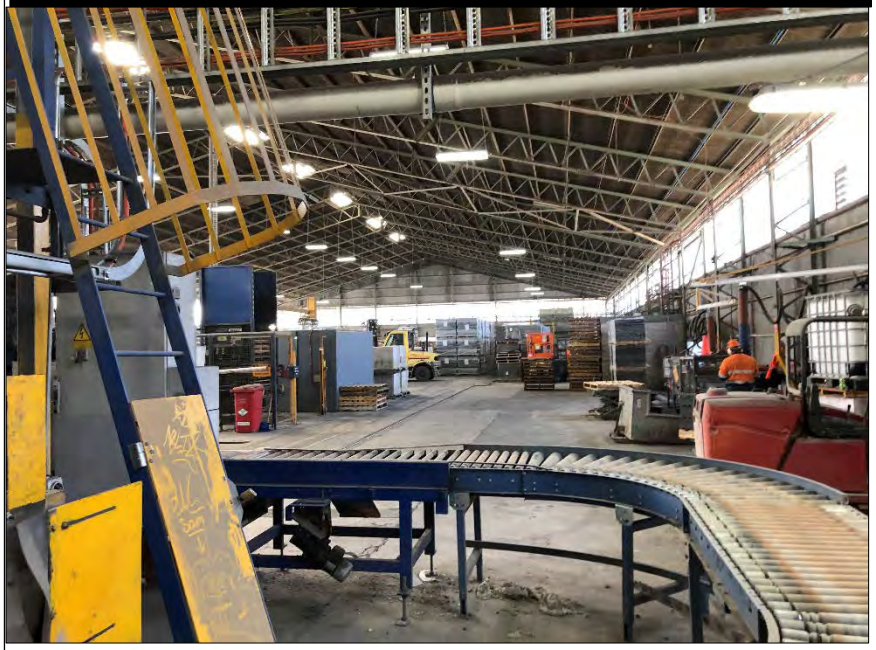


PHOTO 7: SETTLING PITS EXTERNAL TO THE SOUTH OF PLANT 2



PHOTO 8: VARIOUS IBCS IDENTIFIED ACROSS THE SITE



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 9: DISCARDED PRODUCT DISPOSAL AREA TO THE WEST OF PLANT 2



PHOTO 10: INTERCEPTOR WASH BAY NORTH OF PLANT 2



PHOTO 11: VARIOUS HYDRAULIC OIL AND CHEMICAL STORAGE IN THE SOUTH WEST OF PLANT 2



PHOTO 12: ISOLATED SURFACE STAINING ATOP CONCRETE ADJACENT TO CURRENT DIESEL AST



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 13: DRAINAGE ALIGNMENTS ADJACENT TO PLANT 2



PHOTO 14: SEDIMENT ACCUMULATED IN OVERLAND DRAINAGE EASEMENTS NORTH OF PLANT 2



PHOTO 15: WASTE DISPOSAL WITHIN THE FIRST FLUSH PIT



PHOTO 16: TYRES WITHIN THE NORTH WEST OF THE ASSOCIATED WITH OTHER DISCARDED EQUIPMENT



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 17: MATERIAL STORAGE SHED IN THE SOUTH OF THE ASSESSMENT AREA (FLY ASH/CONCRETE/SAND)



PHOTO 18: OIL/HYDROCARBON AND FORMER DIESEL AST STORAGE AREA, NORTH WEST OF PLANT 1

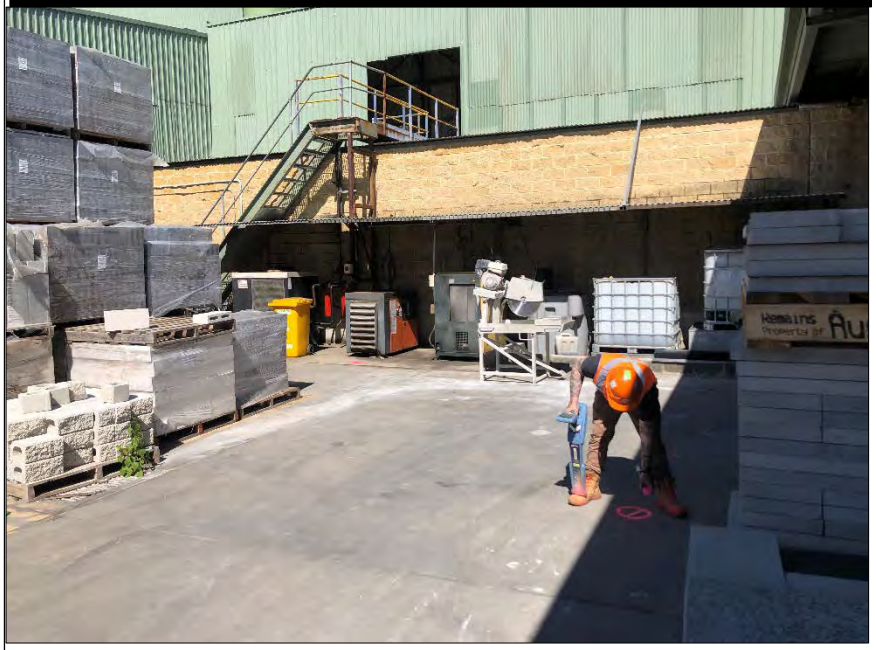


PHOTO 19: VARIOUS HYDRAULIC OIL, HYDROCARBON AND CHEMICAL STORAGE WITHIN PLANT 1



PHOTO 20: BUNDED AREA AND DRUM OF WASTE (DIESEL) IN AREA OF PRESUMED FORMER DIESEL AST IN PLANT 1



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev A	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 21: SETTLING PITS TO THE WEST OF PLANT 1



PHOTO 22: OXIDE AST/STAINING IN BUNDED AREA TO THE SOUTH OF PLANT 1



PHOTO 23: LOCALISED STAINING ADJACENT TO HYDRAULIC OIL PUMP ROOM NORTH OF PLANT 1

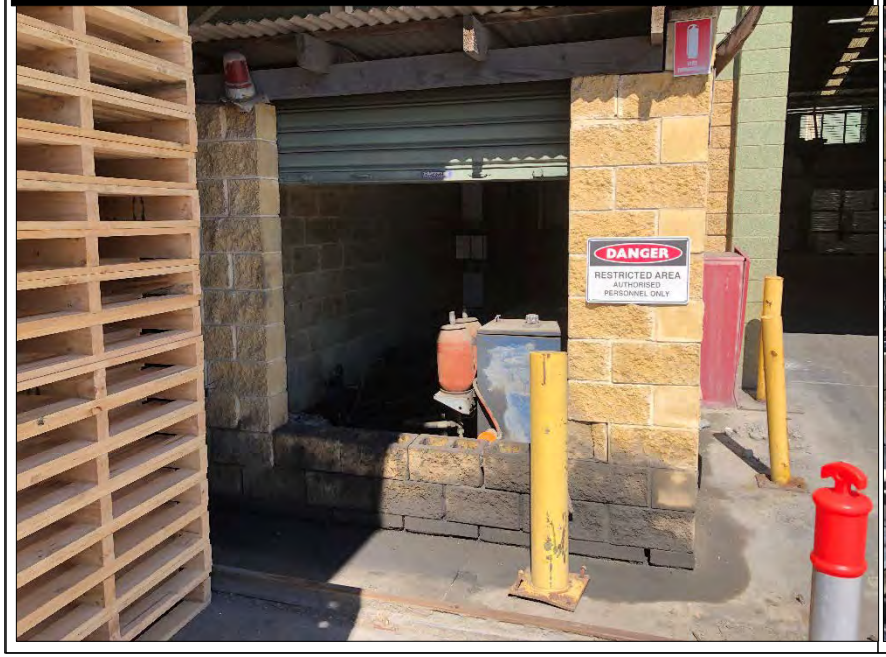


PHOTO 24: VARIOUS EQUIPMENT/MACHINERY IN PLANT 1



JBS&G

Job No: 58238	
Client: ISPT/Aliro	
Version: Rev A	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 25: EXCAVATION INTO EMBANKMENT OF FIRST FLUSH PIT IN THE NORTH WEST OF THE ASSESSMENT AREA



PHOTO 26: VARIOUS SCRAP METAL IN FILL, IN NORTH WEST OF ASSESSMENT AREA CO-MINGLED WITH ACM



PHOTO 27: BRICK/CONCRETE INCLUSIONS AT JB88



PHOTO 28: ACM IMPACTED FILL MATERIAL IN EMBANKMENT OF FIRST FLUSH PIT



JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev A	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 29: FRAGMENTS OF ACM AT JB53



PHOTO 30: GENERAL SILTY GRAVELLY FILL IN THE NORTH WEST OF THE ASSESSMENT AREA



PHOTO 31: AREA OF BONDED ACM IMPACTED FILL MATERIAL IN THE NORTH WEST OF THE ASSESSMENT AREA



PHOTO 32: SANDY SILTY CLAY WITH IGNEOUS BOULDERS AND BRICK AT JB95 (LOCATION OF AF/FA EXCEEDANCE)



JBS&G

Job No: 58238

Client: Aliro/ISPT

Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB

Not to Scale

Coord. Sys n/a

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

PHOTO 33: DELINEATION TEST PITS (JB14) ADJACENT TO LOT 63



PHOTO 34: SCRAP METAL IDENTIFIED IN FILL ADJACENT TO LOT 63 (JB14)



PHOTO 35: BONDED ACM AT JB14



PHOTO 36: BONDED ACM AT JB22A



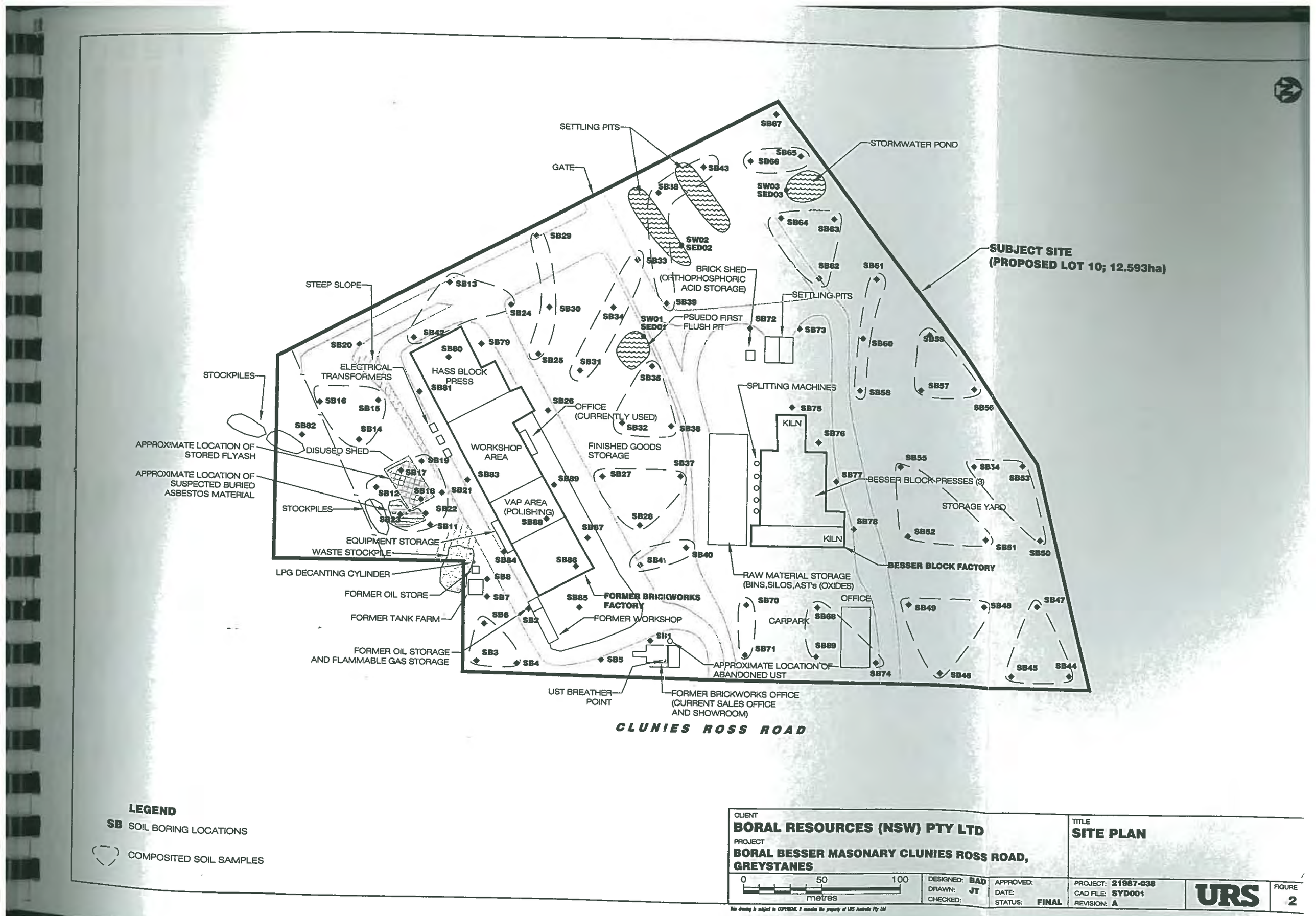
JBS&G

Job No: 58238	
Client: Aliro/ISPT	
Version: Rev 0	Date: 14/09/2020
Drawn By: CK	Checked By: MB
Not to Scale	
Coord. Sys n/a	

Prospect Logistics Estate – Assessment Area Photographs

APPENDIX 3

Appendix D Woodward and Clyde Map



LEGEND

SB SOIL BORING LOCATIONS

COMPOSITED SOIL SAMPLES

CLIENT: **BORAL RESOURCES (NSW) PTY LTD**				TITLE: **SITE PLAN**
PROJECT: **BORAL BESSER MASONARY CLUNIES ROSS ROAD, GREYSTANES**				
0 50 100 metres	DESIGNED: BAD DRAWN: JT CHECKED:	APPROVED: DATE: STATUS: FINAL	PROJECT: 21967-038 CAD FILE: SYD001 REVISION: A	URS

FIGURE 2

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Appendix E Field Bore Logs

GROUNDWATER WELL JB66/MW01

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,148.61
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,257,151.7
CLIENT	**DRILL RIG**	**ELEVATION** 56.761 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 10 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMPLETION | **CASING** Class 18 PVC - 50mm | **SCREEN INTERVAL** 7 - 10 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0.5		Fill	Fill - Clay, brown, damp, medium plasticity, firm, inclusions of roots, concrete, ceramic, bricks	SM	JB66/MW01 0-0.1		No Odour, Staining or ACM
								JB66/MW01 0.5-0.6		No Odour, Staining or ACM
			1		Fill	Fill - Clay, grey and brown, damp, medium - high plasticity, firm, trace inclusions of tiny bricks, ceramic frags	SM	JB66/MW01 1.0-1.1		No Odour, Staining or ACM
			1.5							
			2		Fill	Fill - Clay, dark black /brown, damp, medium - high plasticity, frim, inclusions of tiny glass, ceramics, gravels	SM	JB66/MW01 2.0-2.1		No Odour, Staining or ACM
			2.5							
			3					JB66/MW01 3.0-3.1		No Odour, Staining or ACM
			3.5							
			4					JB66/MW01 4.0-4.1		No Odour, Staining or ACM
			4.5		Fill	Fill - Clay, brown, damp, medium plasticity, frim, trace sand content, inclusions of trace rock	SM			
					CL	Clay, light brown / brown, damp, low - medium plasticity	SM	JB66/MW01 5.0-5.1		No Odour, Staining or ACM
			5							
			5.5							
			6		CL	Clay, light brown, damp, low plasticity, stiff	SM	JB66/MW01 6.0-6.1		No Odour, Staining or ACM
			6.5							
			7					JB66/MW01 7.0-7.1		No Odour, Staining or ACM
			7.5							
			8							
			8.5							
			9							
			9.5							
			10			Termination Depth at:10.000 m.				

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GROUNDWATER WELL JB81/MW02

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 307,959.86
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,257,073.03
CLIENT	**DRILL RIG**	**ELEVATION** 56.928 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 7.5 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 4.5 - 7 m bgl
COMMENTS		

Drilling Method	Depth (m bgl)	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	0	Fill	Fill - Stabilised roadbase	D	JB81/MW02 0.1-0.2		No Odour, Staining or ACM
		Fill	Fill - Clay, brown, damp, homogenous, low plasticity	SM			
	0.5				JB81/MW02 0.5-0.6		No Odour, Staining or ACM
		Fill	Fill - Clay, brown, heterogeneous, low - medium plasticity, inclusion black grey shales	SM	JB81/MW02 0.9-1.0		No Odour, Staining or ACM
	1						
	1.5	Fill	Fill - Gravelly Clay, dark brown, heterogeneous, damp, low - medium plasticity, firm, inclusions of rock, crushed bricks, shales, plastic	SM	JB81/MW02 1.5-1.6		No Odour, Staining or ACM
	2				JB81/MW02 1.6-2.1		No Odour, Staining or ACM
	2.5				JB81/MW02 2.0-3.1		No Odour, Staining or ACM
	3	Fill	Fill - Clay, greyish brown, moist, heterogeneous, medium - high plasticity, inclusions of fine bricks, fine rocks, ironstones, shale	M	JB81/MW02 3.0-3.1		No Odour, Staining or ACM
	3.5						
	4	CH-MH	Silty Clay, light brown, moist, homogenous,medium - high plasticity, soft – firm, inclusions of fine rocks, gravels	M			
	4.5				JB81/MW02 4.6-4.7		No Odour, Staining or ACM
	5						
	5.5				JB81/MW02 5.5-5.6		No Odour, Staining or ACM
	6						
	6.5						
	7						
	7.5		Termination Depth at:7.500 m.				
	8						
	8.5						
	9						
	9.5						

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GROUNDWATER WELL JB48/MW03

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 307,862.98
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,256,899.36
CLIENT	**DRILL RIG**	**ELEVATION** 66.075 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 9 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 3 - 9 m bgl
COMMENTS		

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - Stabilised roadbase	D	JB48/MW03 0.1-0.2		No Odour, Staining or ACM
					Fill	Fill - Clay, dark grey, damp, homogeneous, low - medium plasticity, firm, inclusions of sand, tiny gravels	SM	JB48/MW03 0.4-0.5		No Odour, Staining or ACM
			0.5		Fill	Fill - Clayey Gravel, black / grey, shale layer	SM	JB48/MW03 0.9-1.0		No Odour, Staining or ACM
			1							
			1.5					JB48/MW03 1.9-2.0		No Odour, Staining or ACM
			2							
			2.5							
			3							
			3.5					JB48/MW03 4.0-4.1		No Odour, Staining or ACM
			4		CL	Clay, light brown, saturated, heterogeneous, medium plasticity, inclusions of shale grounds	M			
			4.5							
			5							
			5.5							
			6							
			6.5							
			7							
			7.5							
			8							
			8.5							
			9			Termination Depth at:9.000 m.				
			9.5							

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GROUNDWATER WELL JB85/MW04

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,099.91
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,940.99
CLIENT	**DRILL RIG**	**ELEVATION** 66.149 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 6.1 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 3.1 - 6.1 m bgl
COMMENTS		

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - Stabilised roadbase	D	JB85/MW04 0.05-0.3		No Odour, Staining or ACM
					Fill	Fill - Sand, brown, damp, heterogeneous, coarse, dense, inclusions of fine glass, fine grounds, brick frag	SM	JB85/MW04 0.3-0.5		No Odour, Staining or ACM
			0.5		Fill	Fill - Clay, reddish brown / dark brown with grey mottled, damp, heterogeneous, low - medim plasticity, inclusions of shale	SM	JB85/MW04 0.5-1.0		No Odour, Staining or ACM
			1		Fill	Fill - Clay, brown, damp, heterogeneous, high plasticity, inclusions of shale	SM	JB85/MW04 1.0-1.1		No Odour, Staining or ACM
			1.5		CH-MH	Silty Clay, dark brown / black, moist, medium - high plasticity, soft, inclusions of roots, organics, shales	SM	JB85/MW04 1.2-1.4		No Odour, Staining
			2					JB85/MW04 2.0-2.2		No Odour, Staining or ACM
			2.5		CL	Clay, orange and grey mottled, homogenous, damp, medium plasticity, firm, stiff, inclusions of shales and roots	SM	JB85/MW04 2.6-2.8		No Odour, Staining or ACM
			3		CL	Clay, orange and white mottled, heterogeneous, dry, stiff, inclusions of shale chunkcs, some sand	D	JB85/MW04 3.4-3.5		No Odour, Staining or ACM
			3.5							
			4							
			4.5		Shale	Weathered Shale, grey with very fine sand.	SM	JB85/MW04 4.8-5.0		No Odour, Staining or ACM
			5							
			5.5							
			6							
			6.5			Termination Depth at:6.100 m.				
			7							
			7.5							
			8							
			8.5							
			9							
			9.5							

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GROUNDWATER WELL JB24/MW05

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,048.67
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,818.71
CLIENT	**DRILL RIG**	**ELEVATION** 66.706 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 8 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 3.5 - 8 m bgl
COMMENTS		

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Fill	Fill - Gravelly Sand, light brown, dry, heterogeneous, loose, coarse grained, inclusions of gravels, concrete	D	JB24/MW05 0-0.1		No Odour, Staining or ACM
			0.5		Fill	Fill - Silty Sand, yellow / brown, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 0.4-0.5		No Odour, Staining or ACM
			1					JB24/MW05 1.0-1.1		No Odour, Staining or ACM
			1.5							
			2					JB24/MW05 2.1-2.2		No Odour, Staining or ACM
			2.5							
			3		SM	Silty Sand, yellow / brown, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 3.4-3.5		No Odour, Staining or ACM
			3.5							
			4							
			4.5		SG-SM	Gravelly Silty Sand, brown / black, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 5.0-5.1		No Odour, Staining or ACM
			5							
			5.5							
			6							
			6.5							
			7							
			7.5							Refusal at 8mbgs
			8			Termination Depth at:8.000 m.				
			8.5							
			9							
			9.5							

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GROUNDWATER WELL JB40/MW06

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,084.04
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,897.57
CLIENT	**DRILL RIG**	**ELEVATION** 66.564 m AHD
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 7.6 m bgl	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 3.1 - 7.6 m bgl
COMMENTS		

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Concrete	Fill - Concrete	D	JB40/MW06 0.3-0.5		No Odour, Staining or ACM
			0.5		Fill	Fill - Clay, greenish brown, damp, heterogeneous, medium - high plasticity, firm / stiff, inclusions of reddish brown shales, trace roots, some black mottled	SM	JB40/MW06 0.9-1.0		No Odour, Staining or ACM
			1							
			1.5					JB40/MW06		
			2		Fill	Fill - Gravelly Clay, brown, damp, heterogeneous, low plasticity, firm, inclusions of shales, weathered rock	SM	JB40/MW06 1.6-2		No Odour, Staining or ACM
			2.5							
			3		CL	Weathered Clay, brown, damp, heterogeneous, non plastic, inclusions of dolerite	SM	JB40/MW06 2.8-3.0		No Odour, Staining or ACM
			3.5							
			4					JB40/MW06 3.9-4.0		No Odour, Staining or ACM
			4.5							
			5							
			5.5							
			6		Shale	Weathered Shales / Dolerite, brown some moisture	SM			
			6.5							
			7					JB40/MW06 7.0-7.1		No Odour, Staining or ACM
			7.5		Sandstone	Sandstone, weathered, light grey, fine grained	SM			
			8			Termination Depth at:7.600 m.				
			8.5							
			9							
			9.5							

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GROUNDWATER WELL MW07

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20 - 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**ELEVATION** N/A
PERMIT NO. N/A	**DRILLING METHOD** Solid Flight Auger	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**TOTAL DEPTH** 9 m bgl	**COORD SOURCE**
	DIAMETER 150 mm	**LOGGED BY** KY
COMPLETION	**CASING** Class 18 PVC - 50mm	**SCREEN INTERVAL** 6 - 9 m bgl
COMMENTS		

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA			0		Asphalt	Asphalt	D			
					CH-MH	Silty Clay, dark brown / black, moist, medium - high plasticity, soft, inclusions of roots, organics, shales	D			
			3		CL	Clay, orange and grey mottled, homogenous, damp, medium plasticity, firm, stiff, inclusions of shales and roots	D			
			5		Shale	Weathered Shale, grey with very fine sand.	SM			
			9			Termination Depth at:9.000 m.				

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SOIL BOREHOLE JB01

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Well sorted recycled DGB gravel, heterogenous, loose, dry with inclusions of crushed concrete, brick, glass and porcelain		JB01 0.0-0.1	1.5	No Odour, ACM or Staining
							JB01 0.4-0.5	1.4	No Odour, ACM or Staining
		1		RWN	Fill - Shale stone, heterogeneous, with traces of brick				
		1.5					JB01 1.5-1.6	1.5	No Odour, ACM or Staining
									End of Testpit due to Refusal on Shale
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB02

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravel road base, heterogeneous, Grey, blue metal and quartz with minor inclusions of crushed brick and concrete		JB02 0.0-0.1	1	No Odour, ACM or Staining
				Fill	'Fill - Silty stabilised gravelly sand, Heterogeneous, highly compacted, with inclusions of well sorted crushed rock and concrete		JB02 0.5-0.6	1.1	No Odour, ACM or Staining
		1		Fill	Fill - Shale gravel, Heterogeneous, Light Brown, poorly sorted loose shale and mudstone gravels (0.5 - 30cm)				
		1.5					JB02 1.5-1.6	1.6	No Odour, ACM or Staining
		2							
		2.5		Fill	Fill - Clay, Homogenous. Brown		JB02 2.6-2.7	1.9	No Odour, ACM or Staining
		3							End of Testpit on Natural as Per Scope
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB03

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravel road base, heterogeneous, Grey, blue metal and quartz with minor inclusions of crushed brick and concrete		JB03 0.0-0.1	1.6	No Odour, ACM or Staining
				Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, highly compacted, with inclusions of well sorted crushed rock and concrete		JB03 0.4-0.3	1.9	No Odour, ACM or Staining QA/QC20200905-CK
		1					JB03 1.0-1.1	1.8	No Odour, ACM or Staining
		1.5		Fill	Fill - Shale gravel, Heterogeneous, Light Brown, poorly sorted loose shale and mudstone gravels (0.5 - 30cm)		JB03 1.3-1.4	1.8	No Odour, ACM or Staining
		2							
		2.5					JB03 2.4-2.5	1.2	No Odour, ACM or Staining QA/QC20200905-CK
		3					JB03 3.0-3.1	1	No Odour, ACM or Staining End of Testpit due to Excavator Reach
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB04

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty sand (crushed cement), grey, dry, heterogeneous, with inclusion of gravels.		JB04 0.0-0.1		No ACM, odours or staining observed.
				Fill	Fill - Sandy gravel, brown/red, damp, heterogeneous, loose.		JB04 0.2-0.3		No ACM, odours or staining observed.
				Fill	Fill - Sandy silty clay, grey, damp, heterogeneous, firm, medium plasticity, with inclusion of shale.		JB04 0.5-0.6		No ACM, odours or staining observed.
		1		Fill	Fill - Shale, light brown, dry, heterogeneous, stiff.		JB04 1.0-1.1		No ACM, odours or staining observed.
		1.5							Refusal at 1.5 m bgs.
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB05

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly silty sand, brown/grey, damp, heterogeneous, medium dense.		JB05 0.0-0.1 JB05 0.3-0.4		No ACM, odours or staining observed.
		1		Fill	Fill - Gravelly silty sand, brown/grey, damp, heterogeneous, medium dense, with inclusion of shale and clasts of clay.		JB05 0.5-0.6		No ACM, odours or staining observed.
		1.5		Fill	Fill - Shale, light brown, dry, heterogeneous, hard.		JB05 1.0-1.1		No ACM, odours or staining observed.
		2					JB05 2.0-2.1		
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB06

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Gravel road base, heterogeneous, Grey, blue metal and quartz with minor inclusions of crushed brick and concrete		JB06 0.0-0.1	1.9	No Odour, ACM or Staining
				Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, highly compacted, with inclusions of well sorted crushed rock and concrete		JB06 0.5-0.6	1.8	No Odour, ACM or Staining
		0.5							
		1					JB06 1.1-1.2	1.9	No Odour, ACM or Staining
		1.5		Fill	Fill - Clayey shale gravel, Heterogenous, Grey, poorly sorted, wet, with inclusions of bricks and trace of timber				
		2					JB06 2.0-2.1	1.4	No Odour, ACM or Staining
		2.5		Fill	Fill - Clayey Shale gravel, Heterogeneous, Light Brown, poorly sorted, with inclusions of loose shale and mudstone gravels (0.5 - 30cm)				
							JB06 2.8-2.9	1.5	No Odour, ACM or Staining
		3							End of Testpit due to Excavator Reach
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB07

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Blue metal and quartz gravel road base, heterogeneous, Grey, with minor inclusions of crushed brick and concrete		JB07 0.0-0.1	1	No Odour, ACM or Staining
				Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, highly compacted, with inclusions of well sorted crushed rock and concrete		JB07 0.5-0.6	1.2	No Odour, ACM or Staining
		0.5		Fill	Fill - Shale gravel, Heterogeneous, Light Brown, poorly sorted loose shale and mudstone gravels (0.5 - 30cm)				
		1							
		1.5					JB07 1.5-1.6	1.9	No Odour, ACM or Staining
		2							
		2.5		CH	Clay, Homogenous, brown with mottles, mod plasticity, fine grained, dense and damp		JB07 2.7-2.8	1.5	No Odour, ACM or Staining
		3							End of Testpit on Natural as Per Scope
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB08

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Blue metal and quartz gravel road base, heterogeneous, Grey, with minor inclusions of crushed brick and concrete		JB08 0.0-0.1	0.6	No Odour, ACM or Staining
				Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, highly compacted, with inclusions of well sorted crushed rock and concrete		JB08 0.5-0.6	0.2	No Odour, ACM or Staining
		0.5		Fill	Fill - Shale gravel, Heterogeneous, Light Brown, poorly sorted loose shale and mudstone gravels (0.5 - 30cm)		JB08 1.5-1.6	0.4	No Odour, ACM or Staining
		1							
		1.5							
		2		CH	Clay, Heterogenous, brown with mottles, mod plasticity, fine grained, dense and damp		JB08 2.3-2.4	0.9	No Odour, ACM or Staining
		2.5							End of Testpit on Natural as Per Scope
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB09

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Gravel road base, heterogeneous, Grey, blue metal and quartz with minor inclusions of crushed brick and concrete		JB09 0.0-0.1	1.9	No Odour, ACM or Staining
				Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, Red-Brown, highly compacted, with minor inclusions of brick and crushed gravels		JB09 0.5-0.6	0.2	No Odour, ACM or Staining
		0.5							
		1		Fill	Fill - Silty stabilised gravelly sand, Heterogeneous, Dark Grey, highly compacted, with minor inclusions of brick and crushed gravels		JB09 1.1-1.2	0.5	No Odour, ACM or Staining
		1.5		Fill	Fill - Clayey shale gravel, Heterogenous, Grey, poorly sorted, wet, with inclusions of bricks and trace of timber		JB09 1.6-1.7	0.5	No Odour, ACM or Staining
		2							End of Testpit due to Refusal on Shale
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB10

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Gravelly silty sand, brown/grey, damp, heterogeneous, medium dense.		JB10 0.0-0.1		No ACM, odours or staining observed.
							JB10 0.2-0.3		
		0.5		Fill	Fill - Shale, grey, damp, heterogeneous, hard, with inclusion of some clay.		JB10 0.5-0.6		No ACM, odours or staining observed.
		1					JB10 1.0-1.1		
		1.5							
		2					JB10 2.0-2.1		
		2.5		Dolerite	Weathered dolerite, brown turns lighter brown at 2.6 m bgs, dry, homogeneous.		JB10 2.8-2.9		No ACM, odours or staining observed.
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB12

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Gravelly silty sand, grey, dry, heterogenous, very loose, fine sand.		JB12 0.0-0.1		No ACM, odours or staining observed.
				Fill	Fill - Silty clay, brown, dry, heterogeneous, medium plasticity, with inclusion of bricks.		JB12 0.3-0.4		No ACM, odours or staining observed.
		0.5					JB12 0.5-0.6		
		1		Fill	Fill - Shale, grey, dry, with minor inclusion of bricks.		JB12 1.1-1.2		No ACM, odours or staining observed.
		1.5		Fill	Fill - Shale, grey, dry, with more inclusion of bricks and terracotta.				No ACM, odours or staining observed.
		2		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB12 2.0-2.1		No ACM, odours or staining observed.
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB13

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill- Silty Gravel roadbase, Heterogenous, Grey, igeneous. Well sorted		JB13 0.0-0.1	0.9	No Odour, ACM or Staining
				Fill	Fill - Silty Clay, Heterogeneous, Orange Brown, with inclusions of bricks, plastic, glass, rusted scrap metal and ACM		JB13 0.5-0.6	0.8	Wedge of ACM Impacted Fill Identified in the Wall of the Testpit (0.2-0.25)
		1		Fill	Fill - Clay, brown				No Odour, ACM or Staining
		1.5							End of Testpit on Natural as Per Scope
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB14

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Silty sand (crushed cement), grey, dry, heterogeneous, loose.		JB14 0.0-0.1	1.5	No Odour and Staining, ACM Observed
		0.5		Fill	Fill - Silty Clay, Heterogeneous, Orange Brown, with inclusions of bricks, plastic, glass, rusted scrap metal and ACM		JB14 0.3-0.4		
							JB14 0.5-0.6	1.4	No Odour and Staining, ACM Observed
		1					JB14 1.0-1.1	1.9	No Odour and Staining, ACM Observed
		1.5		Fill	Fill - Clayey shale gravel, Heterogeneous, with nil inclusions noted		JB14 1.5-1.6	1.8	No Odour, ACM or Staining
				CH	Silty Clay, Homogenous, Brown, medium- high plasticity		JB14 1.6-1.7	0.3	No Odour, ACM or Staining
		2					JB14 2.0-2.1		End of Testpit on Natural as Per Scope
		2.5							
		3		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB14 3.0-3.1		No ACM, odours or staining observed.
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB14A

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill- Silty Gravel roadbase, Heterogenous, Grey, igeneous. Well sorted		JB14A 0.0-0.1	0.6	No Odour, ACM or Staining
				Fill	Fill - Silty Clay, Heterogeneous, Red Brown, with inclusions of bricks, plastic, glass, rusted scrap metal and ACM				ACM Impacted fill tapered out to the west of test pit (to 1mbg), layer ends 4m from fence
							JB14A 0.5-0.6	0.6	
		1		Fill	Fill - Clayey shale gravel, Heterogeneous, Brownwith nil inclusions noted				No Odour and Staining, ACM Observed
							JB14A 1.0-1.1	0.8	No Odour and Staining, ACM Observed
		1.5							No Odour, ACM or Staining
							JB14A 1.5-1.6	0.7	
				CL	Silty Clay, Heterogeneous, Dark Brown, some roots				End of Testpit on Natural as Per Scope
							JB14A 1.8-1.9	0.6	
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB14B

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill- Silty Gravel roadbase, Heterogenous, Light Grey, igeneous. Well sorted		JB14B 0.0-0.1	0.5	No Odour, ACM or Staining
				Fill	Fill - Gravelly Clay, Heterogeneous, Grey, poorly sorted with inclusions of shale gravel				
		0.5					JB14B 0.5-0.6	0.5	No Odour, ACM or Staining
		1							
		1.5		Fill	Fill - Sandy, Brown, with inclusions of bricks		JB14B 1.5-1.6	0.3	No Odour, ACM or Staining
				CL	Silty Clay, dark brown				No Odour, ACM or Staining
							JB14B 1.7-1.8	0.8	End of Testpit on Natural as Per Scope
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB14C

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill- Silty Gravel roadbase, Heterogenous, Grey, igeneous. Well sorted		JB14C 0.0-0.1	0.6	No Odour, ACM or Staining
				Fill	Fill - Stablised sand, pink				
				Fill	Fill - Sandy gravel, heterogeneous, Grey, well sorted with inclusions of bricks				No Odour, ACM or Staining
		1		CL-ML	Silty Clay, Brown		JB14C 0.5-0.6	0.5	
							JB14C 1.0-1.1	0.5	No Odour, ACM or Staining
		1.5					JB14C 1.5-1.6	0.6	No Odour, ACM or Staining
		2							End of Testpit on Natural as Per Scope
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB14D

PROJECT NUMBER 58238
PROJECT NAME
CLIENT
ADDRESS Clunies Ross St, Pemulwuy, NSW

DRILLING COMPANY Ken Cole
DRILLING DATE 05-Sep-20
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE
LOGGED BY Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill- Silty Gravel roadbase, Heterogenous, Grey, igeneous. Well sorted		JB14D 0.0-0.1	0.4	No Odour, ACM or Staining
		0.5		Fill	Fill - Clay, Brown Grey, ith inclusions of shale and minor inclusions of brick		JB14D 0.5-0.6	0.9	No Odour, ACM or Staining
		1					JB14D 1.0-1.1	0.5	No Odour, ACM or Staining
				CL	Clay, brown		JB14D 1.3-1.4	0.2	No Odour, ACM or Staining
		1.5							End of Testpit on Natural as Per Scope
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB15

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly silty clay, grey, dry, heterogeneous.		JB15 0-0.1		No ACM, odours or staining observed.
							JB15 0.2-0.5		ACM identified. No odour/staining.
							JB15 0.3-0.4		
							JB15 0.5-1		No Odour, Staining or ACM
		1		CL	Clay, brown, heterogeneous, moderately plastic. No inclusions.		JB15 1.0-1.1		
		1.5		Fill	Fill - Silty clay, brown, dry, heterogeneous, firm, medium plasticity, with inclusion of grey gravelly silty sand.				No ACM, odours or staining observed.
		2					JB15 2.0-2.1		
		2.5							
		3		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB15 3.0-3.1		No ACM, odours or staining observed.
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB15A

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 253 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill	Fill - Sandy clay, light brown, heterogeneous with inclusions of quartz gravels		JB15A 0-0.1		No Odour, Staining or ACM
							JB15A 0.2-0.5		No Odour, Staining or ACM
		1					JB15A 0.5-1		No Odour, Staining or ACM
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB16

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sandy clay, brown, dry, heterogeneous, firm, medium plasticity, with inclusion of gravelly sand.		JB16 0.0-0.1 JB16 0.3-0.4 JB16 0.5-0.6		No ACM, odours or staining observed.
		1		Fill	Fill - Gravelly silty sand, grey, dry, heterogeneous, loose.		JB16 1.0-1.1		No ACM, odours or staining observed.
		1.5		Fill	Fill - Gravelly sandy clay, brown, dry, heterogeneous, firm, medium plasticity, with inclusion of gravelly sand.		JB16 2.0-2.1		No ACM, odours or staining observed.
		2.5		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB16 3.0-3.1		No ACM, odours or staining observed.
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB17

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand, grey, dry, heterogeneous, loose.		JB17 0.0-0.1 JB17 0.3-0.4 JB17 0.5-0.6		No ACM, odours or staining observed.
		1		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, medium plasticity.		JB17 1.0-1.1		No ACM, odours or staining observed.
		1.5		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB17 1.9-2.0		No ACM, odours or staining observed. Ground level
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB17a

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, soft, medium plasticity, with inclusion of rootlets.		JB17a 0.0-0.1		No ACM, odours or staining observed.
							JB17a 0.3-0.4		
		0.5		Fill	Fill - Shale, grey, dry, heterogeneous, firm, with inclusion of clay at 1.4 m bgs.		JB17a 0.5-0.6		No ACM, odours or staining observed.
									Service observed at 0.6 m.
		1					JB17a 1.0-1.1		
		1.5					JB17a 1.5-1.6		End of hole at excavator limit.
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB18

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand, grey, dry, heterogeneous, loose.		JB18 0.0-0.1 JB18 0.3-0.4 JB18 0.5-0.6		No ACM, odours or staining observed.
		1		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, medium plasticity.		JB18 1.0-1.1		No ACM, odours or staining observed.
		1.5		Dolerite	Weathered dolerite, brown, dry, homogeneous.		JB18 1.9-2.0		No ACM, odours or staining observed.
		2							Ground level
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB19-01

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand (crushed cement), grey, dry, heterogeneous, loose, with inclusion of rootlets, plastic and concrete fragments.		JB19-01 0.3-0.4		No ACM, odours or staining observed.

1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

SOIL BOREHOLE JB19-02

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand (crushed cement), grey, dry, heterogeneous, loose, with inclusion of rootlets, plastic and concrete fragments.		JB19-02 0.2-0.3		No ACM, odours or staining observed.

SOIL BOREHOLE JB19-03

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand (crushed cement), grey, dry, heterogeneous, loose, with inclusion of rootlets, plastic and concrete fragments.		JB19-03 0.1-0.2		No ACM, odours or staining observed.

SOIL BOREHOLE JB19-04

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand (crushed cement), grey, dry, heterogeneous, loose, with inclusion of rootlets, plastic and concrete fragments.		JB19-04 0.4-0.5		No ACM, odours or staining observed.

SOIL BOREHOLE JB19-05

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand (crushed cement), grey, dry, heterogeneous, loose, with inclusion of rootlets, plastic and concrete fragments.		JB19-05 0.3-0.4		No ACM, odours or staining observed.

1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

SOIL BOREHOLE JB20

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Brown silty clay, low plasticity, heterogeneous, dry, soft, including shale, brick fragments and rootlets		JB20_0.0-0.1	0.1	ACM Frag, No Odour or Staining
				CL-ML	Brown silty clay, homogeneous, low plasticity, dry, soft		JB20_0.2-0.3	0.3	No Odour and Staining, ACM Observed
		0.5							No Odour, ACM or Staining
		1							End of Hand Auger on Natural as Per Scope
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB21

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill	Fill - Silty clay, brown, low plasticity, heterogeneous, dry, firm, including rootlets		JB21_0.0-0.1	1.3	No Odour, ACM or Staining
				CL-ML					
				CL-ML	Silty Clay, Homogenous, Brown, Low plasticity, Firm and Dry		JB21_0.2-0.3	0.9	No Odour, ACM or Staining
									No Odour, ACM or Staining
									End of Hand Auger on Natural as Per Scope
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB22a

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill	Fill - Silty clay, brown, heterogeneous, dry, low plasticity, soft, including scrap metal, glass		JB22a_0.0-0.1	0.9	ACM Free, No Odour and Staining, ACM Observed End of Hand Auger as Per Scope

SOIL BOREHOLE JB22B

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill	Fill - Silty clay, brown, heterogeneous, dry, low plasticity, with incursion of large igneous ballast		JB22B_0.0-0.1	0.8	No Odour, ACM or Staining
							JB22B_0.3-0.4	0.4	No Odour, ACM or Staining
									End of Hand Auger due to Refusal on Igneous Gravel

SOIL BOREHOLE JB24/MW05

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,048.67
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,818.71
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0		Fill	Fill - Gravelly Sand, light brown, dry, heterogeneous, loose, coarse grained, inclusions of gravels, concrete	D	JB24/MW05 0-0.1		No Odour, Staining or ACM
		0.5		Fill	Fill - Silty Sand, yellow / brown, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 0.4-0.5		No Odour, Staining or ACM
		1					JB24/MW05 1.0-1.1		No Odour, Staining or ACM
		1.5							
		2					JB24/MW05 2.1-2.2		No Odour, Staining or ACM
		2.5							
		3		SM	Silty Sand, yellow / brown, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 3.4-3.5		No Odour, Staining or ACM
		3.5							
		4							
		4.5		SG-SM	Gravelly Silty Sand, brown / black, damp, heterogeneous, dense, medium coarse grained, trace inclusions of roots & tiny gravels	SM	JB24/MW05 5.0-5.1		No Odour, Staining or ACM
		5							
		5.5							
		6							

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		6.5 7 7.5 8							Refusal at 8mbgs
		8 8.5 9 9.5 10 10.5 11 11.5 12 12.5 13			Termination Depth at:8.000 m.				

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SOIL BOREHOLE JB27

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.5		Fill	Fill - Gravelly sandy silt, grey, heterogeneous, dry, loose, including small angular gravels, crushed brick, shale gravels		JB27_0.0-0.1		No Odour, ACM or Staining
		1		Fill	Fill - Gravelly sandy silty, brown, heterogeneous, dry, loose, including rust/corroded metal		JB27_0.5-0.6		No Odour, ACM or Staining
		1.5					JB27_1-1.1		
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB28

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete				No Odour, ACM or Staining
				Fill	Fill - Gravelly silty clay, heterogeneous, dry, brown, soft, high plasticity, including gravels, shale		JB28_0.2-0.3		Slight fuel odour, minor grey staining, no ACM
		0.5		CL-ML	Silty clay, grey with red mottles, stiff, medium plasticity, homogeneous, including ironstone		JB28_0.5-0.6		No Odour, ACM or Staining
				CL-ML	Weathered silty clay, grey with red mottles, homogeneous, dry, medium plasticity, stiff		JB28_0.7-0.8		No Odour, ACM or Staining
		1							
		1.5		CL-ML	Weathered silty clay, grey with gold mottles, homogeneous, dry, medium plasticity, stiff		JB28_1.5-1.6		Grey Staining, slight chemical odour, no ACM
		2					JB28_2.1-2.2		
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB29

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB29_0.1-0.2		No Odour, ACM or Staining
				Dolerite	Weathered dolerite, gold brown, very hard, dry, including corroded metal / rust				No Odour, ACM or Staining
		0.5					JB29_0.5-0.6		
		1							
		1.5					JB29_1.6-1.7		
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB30

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB30_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly sandy silt, brown, heterogeneous, dry, loose, fine grained, including gravels, shale, metal, brick, pebbles, concrete				No Odour, ACM or Staining
		0.5					JB30_0.5-0.6		
		1							
		1.5		Fill	Fill - Silty clay, red / brown, heterogeneous, dry, stiff, medium plasticity, including gravels		JB30_1.5-1.6		No Odour, ACM or Staining
		2		Fill	Fill - Silty clay, black, heterogeneous, dry, stiff, medium plasticity, including roots (organic matter)		JB30_2.1-2.2		No Odour, ACM or Staining
		2.5		Fill	Fill - Silty clay, brown, heterogeneous, dry, stiff, medium plasticity, including roots (organic matter)				No Odour, ACM or Staining
		3					JB30_3.0-3.1		
		3.5							
		4		CL	Weathered clay, grey with gold mottles, hard, dry		JB30_3.7-3.8		No Odour, ACM or Staining
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB31

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB31_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly sandy silt, light brown / green / grey, heterogeneous, dry, loose including gravels				Green / grey staining, chemical odour, no ACM
		0.5		Fill	Fill - Silty clay, brown, heterogeneous, dry, stiff, medium plasticity, including small gravels		JB31_0.4-0.5		No Odour, ACM or Staining
		1		Fill	Fill - Silty clay, black, heterogeneous, dry, stiff, medium plasticity, including crushed besser block		JB31_0.9-1.0		Black staining (organic), no odour or ACM
		1.5							
		2					JB31_2.0-2.1		
				Fill	Fill - Silty clay, brown / black, heterogeneous, dry, stiff, medium plasticity, including trace sand, concrete fragments				No Odour, ACM or Staining
		2.5		CL-ML	Weathered silty clay, grey with gold mottles, firm, medium plasticity		JB31_2.4-2.5		No Odour, ACM or Staining
		3		Shale	Weathered shale, brown, dry, stiff		JB31_2.8-2.9		No Odour, ACM or Staining
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB32

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE**
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.5		Concrete	Brick Pavers	D	JB32 0.05-0.35		No Odour, Staining or ACM
				Fill	Fill - Gravelly Sand, grey brown, dry, heterogeneous, loose, coarse grained, inclusions of gravels, shale, concrete		JB32 0.4-0.5		No Odour, Staining or ACM
		1		Fill	Fill - Silty Sandy Clay, brown, damp, heterogeneous, non plastic, soft with inclusions of coarse sands.		JB32 0.5-0.8		No Odour, Staining or ACM
							JB32 0.9-1.1		No Odour, Staining or ACM
		1.5		CL-ML	Silty Clay - brown black, homogenous, stiff, medium plasticity, with organic inclusions (roots)		JB32 1.4-.15		No Odour, Staining or ACM
							JB32 1.6-1.8		No Odour, Staining or ACM
		2							
		2.5					JB32 2.6-2.7		No Odour, Staining or ACM
		3		CL-SC	Sandy Clay - light grey with brown mottles, damp, medium sand.		JB32 3-3.1		No Odour, Staining or ACM
		3.5		Shale	Shale - residual weathered (clay), grey brown, damp				
		4					JB32 4-4.1		No Odour, Staining or ACM
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB34

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly Sand, Heterogeneous, Non plastic, firm consistency, loose density and damp, with inclusions of angular crushed brick		JB34 0.2-0.3	2.1	No Odour, ACM or Staining
		1		Fill	Fill - Gravelly Clay, Heterogeneous, High plasticity, stiff consistency, medium coarse density and damp		JB34 0.6-0.7	1.5	No Odour, ACM or Staining
		1.5		CH	Clay, Homogenous, brown with black mottles, high plasticity, fine grained, dense and damp		JB34 1.2-1.3	1.8	No Odour, ACM or Staining
		2							End of Testpit on Natural as Per Scope
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB35

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Fill	Fill - Gravelly sandy silt, grey / brown, heterogeneous, dry, loose / medium density, fine grained including gravels, concrete pebbles		JB35_0.0-0.1		No Odour, ACM or Staining
		0.5		Fill	Fill - Gravelly silty clay, brown, heterogeneous, dry, stiff, low plasticity, including gravels, slag, shale and sand		JB35_0.5-0.6		No Odour, ACM or Staining
		1					JB35_1.0-1.1		
		1.5							
		2							
					Fill - Gravelly silty clay, brown, heterogeneous,		JB35_2.1-2.2		
				Fill	dry, stiff, low plasticity, including gravels, slag, shale, sand with green staining				Green staining, no Odour or ACM
		2.5		Fill	Fill - Gravelly silty clay, black, heterogeneous, dry, stiff, low plasticity, including gravels, slag, shale, sand with green staining		JB35_2.4-2.5		No Odour, ACM or Staining
		3		Fill	Fill - Clay, reworked, grey / brown weathered		JB35_3.1-3.2		Green staining, no Odour or ACM
		3.5							
		4		Fill	Fill - Sand, yellow, fine grained, homogeneous, dry, loose		JB35_4.0-4.1		No Odour, ACM or Staining
				Fill	Fill - Silty clay, brown, heterogeneous, dry, stiff, low plasticity, including gravels				No Odour, ACM or Staining
		4.5		CL	Weathered clay, grey with gold mottles, homogeneous, dry, stiff, low plasticity				No Odour, ACM or Staining
		5					JB35_5.0-5.1		
		5.5							

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SOIL BOREHOLE JB36

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.5		Concrete	Pavers		JB36_0.05-0.1		No Odour, ACM or Staining
		1		Fill	Fill - Gravelly sandy silt, heterogeneous, brown, dry, loose, including gravels, brick, concrete, slag, shale,crushed bessema, clay layers		JB36_1.0-1.1		No Odour, ACM or Staining
		1.5							
		2					JB36_2.0-2.1		
		2.5							
		3							
		3.5		ML-CL	Weathered clayey silt, brown / gold, homogeneous, dry, medium density, including ironstone		JB36_3.2-3.3		No Odour, ACM or Staining
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB37

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.5		Concrete	Pavers		JB37_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly sandy silt, heterogeneous, grey / brown, dry, loose, including gravels, bricks, slag				No Odour, ACM or Staining
		1		Fill	Fill - Silty clay, brown / grey, stiff, medium plasticity, including gravels, brick		JB37_0.6-0.7		No Odour, ACM or Staining
		1.5					JB37_1.5-1.6		
		2							
		2.5							
		3		CL-ML	Silty clay, grey with gold mottles, homogeneous, dry, stiff, medium plasticity		JB37_2.6-2.7		No Odour, ACM or Staining
		3.5							
		4		CL-ML	Weathered silty clay, grey with gold mottles, stiff, low plasticity, dry		JB37_4-4.1		Green staining, no Odour or ACM
							JB37_4.1-4.2		
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB38

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete				
				Fill	Fill - Gravelly sandy silt, heterogeneous, grey / brown, dry, loose, including gravels, concrete		JB38_0.1-0.2		No Odour, ACM or Staining
		0.5							No Odour, ACM or Staining
		1		Fill	Fill - Silty clay, brown, damp, heterogeneous, firm, high plasticity, including gravells, brick		JB38_1.0-1.1		No Odour, ACM or Staining
		1.5							
				Fill	Fill - Silty clay, dark grey, damp, heterogeneous, firm, high plasticity, including gravells, brick		JB38_1.8-1.9		No Odour, ACM or Staining
		2		CL	Weathered clay, gold / brown, homogeneous, dry, stiff, low plasticity		JB38_2.0-2.1		No Odour, ACM or Staining
		2.5							
		3					JB38_3.0-3.1		
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB39

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete				No Odour, ACM or Staining
		0.5		CL-ML	Silty clay, green / brown, homogeneous, dry, medium plasticity, firm / stiff		JB39_0.2-0.3		No Odour, ACM or Staining
		1		CL-ML	Weathered silty clay, gold with grey mottles		JB39_0.9-1.0		No Odour, ACM or Staining
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB40/MW06

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,084.04
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,897.57
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0		Concrete	Fill - Concrete	D			
		0.5		Fill	Fill - Clay, greenish brown, damp, heterogeneous, medium - high plasticity, firm / stiff, inclusions of reddish brown shales, trace roots, some black mottled	SM	JB40/MW06 0.3-0.5		No Odour, Staining or ACM
		1					JB40/MW06 0.9-1.0		No Odour, Staining or ACM
		1.5		Fill	Fill - Gravelly Clay, brown, damp, heterogeneous, low plasticity, firm, inclusions of shales, weathered rock	SM	JB40/MW06 1.6-2		No Odour, Staining or ACM
		2							
		2.5		CL	Weathered Clay, brown, damp, heterogeneous, non plastic, inclusions of dolerite	SM	JB40/MW06 2.8-3.0		No Odour, Staining or ACM
		3							
		3.5							
		4					JB40/MW06 3.9-4.0		No Odour, Staining or ACM
		4.5							
		5							
		5.5							
		6							

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		6.5		Shale	Weathered Shales / Dolerite, brown some moisture	SM			
		7		Sandstone	Sandstone, weathered, light grey, fine grained	SM	JB40/MW06 7.0-7.1		No Odour, Staining or ACM
		7.5			Termination Depth at:7.600 m				
		8							
		8.5							
		9							
		9.5							
		10							
		10.5							
		11							
		11.5							
		12							
		12.5							
		13							

SOIL BOREHOLE JB41

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB41_0.1-0.2		No Odour, ACM or Staining
				Dolerite	Weathered dolerite, gold / brown, stiff, dry, including corroded metal / rust				No Odour, ACM or Staining
		0.5							
		1					JB41_1.0-1.1		
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB42

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB42_0.05-0.1		No Odour, ACM or Staining
				ML	Silt, gold / brown, homogeneous, dry, fine				No Odour, ACM or Staining
		0.5							
		1					JB42_1.0-1.1		
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB43

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sandy Clay, Topsoil		JB43 0.0-0.1	0.5	No Odour, ACM or Staining
				CL-ML	Silty Clay, Dark Brown, weathered dolorite				No Odour, ACM or Staining
							JB43 0.5-0.6	0.8	End of Testpit on Natural as Per Scope

SOIL BOREHOLE JB43A

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sandy Gravel, Heterogeneous, with pockets of fine stabilised sand and crushed concrete		JB43A 0.0-0.1	0.5	No Odour, ACM or Staining
				Dolerite	Weathered Dolorite, Red Brown, Granular with composition more toward bedrock toward bottom		JB43A 0.4-0.5	0.6	No Odour, ACM or Staining
		1					JB43A 1.0-1.1	0.4	No Odour, ACM or Staining
		1.5							End of Testpit on Natural as Per Scope
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB44

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly Clay, heterogeneous, Brown, with inclusions of roots, gravel and mulch		JB44 0.0-0.1	0.9	No Odour, ACM or Staining
				Fill	Fill - Silty gravel, Heterogeneous, Light Grey, with igeneous road base		JB44 0.3-0.4	0.9	No Odour, ACM or Staining
		1		Dolerite	Weathered Dolorite Silty Clay, Dark Brown,		JB44 1.0-1.1	0.7	No Odour, ACM or Staining
				CL-GC	Stiff Clay with inclusions of weathered bedrock				End of Testpit on Natural as Per Scope
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB45

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB45_0.05-0.1		No Odour, ACM or Staining
				Dolerite	Weathered dolerite, gold / brown, stiff, including corroded metal / rust				No Odour, ACM or Staining
		0.5					JB45_0.5-0.6		
		1					JB45_1.1-1.2		
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB46

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Sandy silty clay, brown, damp, heterogeneous, soft:low/medium plasticity, with inclusion of some bricks and gravels.		JB46 0.0-0.1		No ACM, odours or staining observed.
							JB46 0.3-0.4		
		0.5		Fill	Fill - Sandy gravel, brown, damp, heterogeneous, loose, with inclusion of bricks.		JB46 0.5-0.6		No ACM, odours or staining observed.
		1					JB46 1.0-1.1		End of hole at excavator limit.
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB48/MW03

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 307,862.98
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,256,899.36
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0		Fill	Fill - Stabilised roadbase	D			
				Fill	Fill - Clay, dark grey, damp, homogeneous, low - medium plasticity, firm, inclusions of sand, tiny gravels	SM	JB48/MW03 0.1-0.2		No Odour, Staining or ACM
		0.5		Fill	Fill - Clayey Gravel, black / grey, shale layer	SM	JB48/MW03 0.4-0.5		No Odour, Staining or ACM
		1					JB48/MW03 0.9-1.0		No Odour, Staining or ACM
		1.5							
		2					JB48/MW03 1.9-2.0		No Odour, Staining or ACM
		2.5							
		3							
		3.5							
		4		CL	Clay, light brown, saturated, heterogeneous, medium plasticity, inclusions of shale grounds	M	JB48/MW03 4.0-4.1		No Odour, Staining or ACM
		4.5							
		5							
		5.5							
		6							

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Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		6.5 7 7.5 8 8.5 9							
		9 9.5 10 10.5 11 11.5 12 12.5 13			Termination Depth at:9.000 m.				

SOIL BOREHOLE JB49

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB49_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly silty sand, heterogeneous, dry, loose, fine grained, including brick, gravels, shale, slag				No Odour, ACM or Staining
		0.5		Fill	Fill - Silty clay, brown / grey, heterogeneous, stiff, high plasticity, including brick, asphalt, shale, gravels		JB49_0.5-0.6		No Odour, ACM or Staining
		1							
		1.5							
		2		CL-ML	Silty clay, dark brown, dry, stiff, medium plasticity		JB49_2.0-2.1		No Odour, ACM or Staining
		2.5		CL-ML	Weathered silty clay, rey with gold mottles, homogeneous, dry, stiff, low plasticity		JB49_2.5-2.6		No Odour, ACM or Staining
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB50

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Asphalt				
				Fill	Fill - Gravelly sandy silt, grey / brown, heterogeneous, dry, loose, including gravels, slag		JB50_0.1-0.2		No Odour, ACM or Staining
				Fill			JB50_0.3-0.4		No Odour, ACM or Staining
		0.5		Fill	Fill - Silty clay, brown / gold, shale gravels, stiff, hard, low plasticity		JB50_0.5-0.6		No Odour, ACM or Staining
					Fill - Silty sand, brown, heterogeneous, dry, loose, including gravels				No Odour, ACM or Staining
		1		Fill	Fill - Silty sand, brown, heterogeneous, dry, loose, fine grained, including small angular gravels, pebbles		JB50_1.0-1.1		No Odour, ACM or Staining
		1.5							
		2							
		2.5		Fill	Fill - Silty clay, red / brown, heterogeneous, dry, stiff, low plasticity, including gravels		JB50_2.4-2.5		No Odour, ACM or Staining
		3		Fill	Fill - Shale, brown / grey		JB50_3.0-3.1		No Odour, ACM or Staining
				Fill	Fill - Silty clay, red / brown, heterogeneous, dry, stiff, low plasticity		JB50_3.3-3.4		No Odour, ACM or Staining
		3.5							
		4							
		4.5							
		5		Dolerite	Dolerite, grey with gold mottles		JB50_4.8-4.9		No Odour, ACM or Staining
		5.5							

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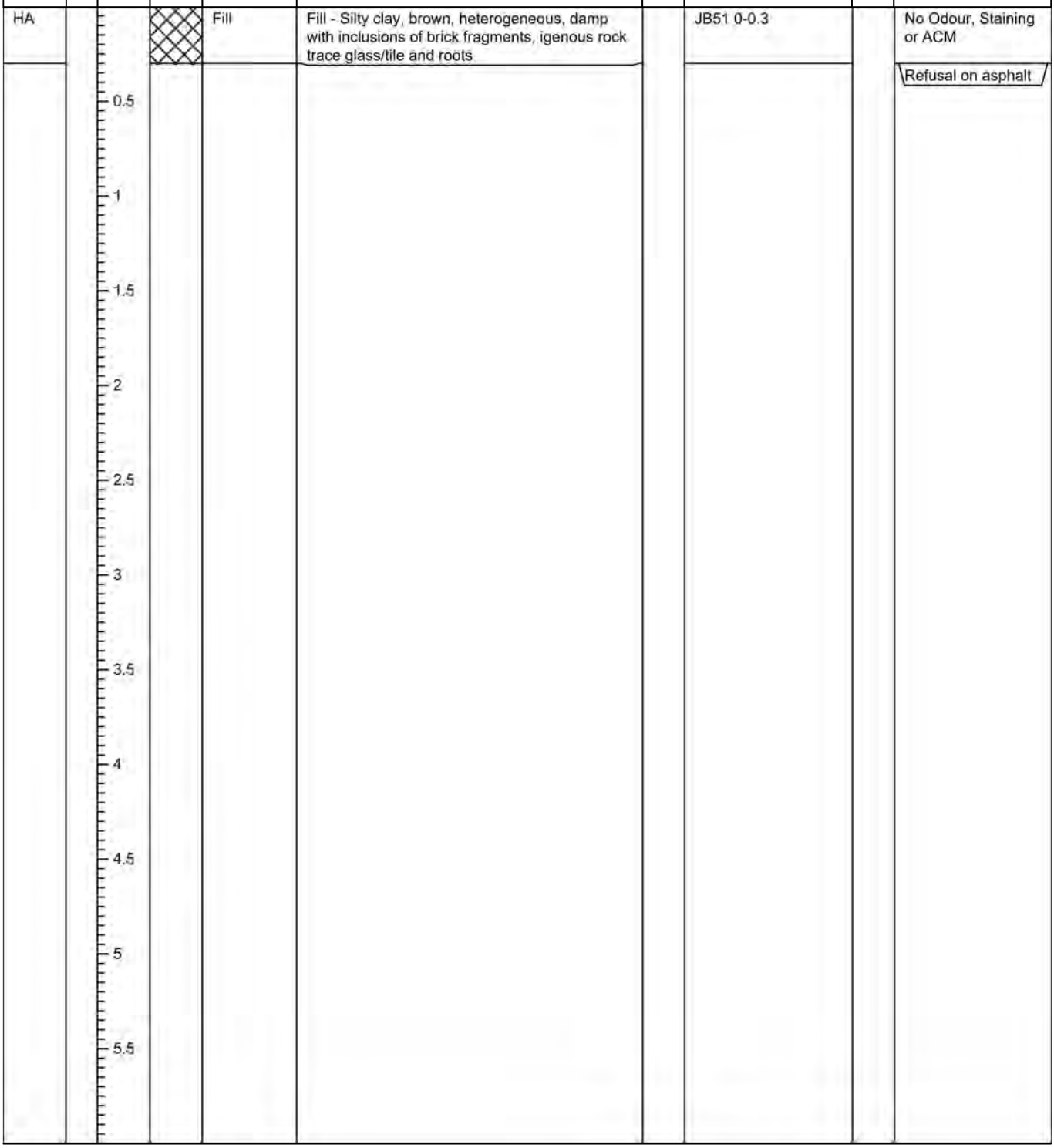
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SOIL BOREHOLE JB51

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 250 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Silty clay, brown, heterogeneous, damp with inclusions of brick fragments, igenous rock trace glass/tile and roots		JB51 0-0.3		No Odour, Staining or ACM
									Refusal on asphalt



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SOIL BOREHOLE JB52

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill-sandy silty gravelly Clay, Heterogeneous, Brown, Low plasticity, soft consistency and dry with inclusions of gravel and concrete cobbles.		JB52 0.1-0.2	0.9	No Odour, ACM or Staining
				Fill	Fill- sandy silty gravelly Clay, Heterogeneous, Brown, Low plasticity, soft consistency and dry with inclusions of fine gravel.		JB52 0.5-0.6	0.6	No Odour, ACM or Staining
		1		Shale	Shale - Homogeneous, Brown, Dense, hard and damp		JB52 0.9-1.0	0.4	No Odour, ACM or Staining
					Termination Depth at:1.000 m.				End of Testpit on Natural Shale
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB52A

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - sandy gravelly Clay, Heterogeneous, Brown, poor graded, coarse and loose density with inclusions of gravel, concrete and brick cobbles.		JB52A	1.1	No Odour, ACM or Staining
					Termination Depth at:0.500 m.				

SOIL BOREHOLE JB53

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, firm, low plasticity, with inclusion of gravels, bricks and scrap metal.		JB53 0.0-0.1 JB53 0.3-0.4 JB53 0.5-0.6 JB53 1.0-1.1		No ACM, odours or staining observed.
		2 2.5 3		Fill	Fill - Silty clay, brown/grey, dry, heterogeneous, dense, hard, high plasticity, with inclusion of bricks and some plastic.		JB53 2.0-2.1 JB53 3.0-3.1		ACM observed. No odours or staining observed. Ground level.
		3.5 4 4.5 5 5.5							

SOIL BOREHOLE JB54

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5		Fill	Fill - Sandy silty clay, brown, damp, heterogeneous, firm, medium palsticity, with inclusion of concrete fragments and bricks.		JB54 0.0-0.1 JB54 0.3-0.4 JB54 0.5-0.6 JB54 1.0-1.1		No ACM, odours or staining observed. ACM observed. No odours or staining observed. Service observed at 0.5 m bgs.
		2 2.5 3		Fill	Fill - Sandy silty clay, grey/olive/brown, damp, heterogeneous, firm, medium palsticity, with inclusion of traces of bricks and gravels.		JB54 2.0-2.1 JB54 3.0-3.1		No ACM, odours or staining observed.
		3.5 4 4.5 5 5.5							

SOIL BOREHOLE JB54a

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sandy silty clay, brown, damp, heterogeneous, firm, medium palsticity, with inclusion of traces of bricks.				No ACM, odours or staining observed.

SOIL BOREHOLE JB55

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, soft, low plasticity, with inclusion of gravels, bricks concrete and rootlets.		JB55 0.0-0.1 JB55 0.3-0.4 JB55 0.5-0.6		No ACM, odours or staining observed.
		1		Fill	Fill - Sandy gravel, grey, dry, heterogeneous, loose.		JB55 1.0-1.1		No ACM, odours or staining observed.
		1.5		Fill	Fill - Silty clay, brown/grey/olive, damp, heterogeneous, firm, high plasticity, with inclusion of gravels.		JB55 2.0-2.1		No ACM, odours or staining observed.
		2							
		2.5							
		3					JB55 3.0-3.1		
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB55a

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sandy silty clay, grey/brown, dry, heterogeneous, firm, medium plasticity.				No ACM, odours or staining observed.
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB58

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty clay, dark brown, dry, heterogeneous, soft, low/medium plasticity, with inclusion of rootlets and traces of gravels.		JB58 0.0-0.1		No ACM, odours or staining observed.
				Fill	Fill - Sandy silty clay, light brown, dry, heterogeneous, firm, medium plasticity, with inclusion of roots.		JB58 0.3-0.4		No ACM, odours or staining observed.
		1		Fill	Fill - Sandy silty clay, dark brown, dry, heterogeneous, with inclusion of bricks.		JB58 0.5-0.6		No ACM, odours or Ground level.
		1.5		Fill	Fill - Silty clay, dark brown, dry, stiff, high plasticity.		JB58 1.0-1.1		No ACM, odours or staining observed.
		2					JB58 2.0-2.1		
		2.5							
		3					JB58 3.0-3.1		
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB59

PROJECT NUMBER 58238	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill	Fill - Gravelly silty topsoil, heterogenous, Brown, Moist, with inclusions of roots, rootlets and road base		JB59 0.0-0.1	1.6	No Odour, ACM or Staining QA/QC20200905-02 End of Hand Auger due to Refusal on Igneous Gravel
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB60

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Sandy gravel, brown/light grey, dry, heterogeneous, hard.		JB60 0.0-0.1		No ACM, odours or staining observed.
							JB60 0.2-0.3		
							JB60 0.3-0.4	1.5	Refusal at 0.3 m bgs on concrete.
		0.5							No Odour, ACM or Staining
				CH	Clay, Homogenous, brown with black mottles, high plasticity, fine grained, dense and damp		JB60 0.8-0.9	1.6	No Odour, ACM or Staining
		1							No Odour, ACM or Staining
							JB60 1.3-1.2	1.9	End of Testpit on Natural as Per Scope
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB61

PROJECT NUMBER 58238	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Silty Gravel road base, heterogeneous, Brown, with inclusions of crushed brick		JB61 0.0-0.1	1.2	No Odour, ACM or Staining
									End of Hand Auger due to Refusal on Tree Roots
		0.5							
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB62

PROJECT NUMBER 58238	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Gravelly silty topsoil, heterogenous, Brown, with inclusions of roots, rootlets, gravel and road base		JB62 0.0-0.1	1.5	No Odour, ACM or Staining End of Hand Auger due to Refusal on Ballast Gravel

SOIL BOREHOLE JB63

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB63_0.1-0.2		No Odour, ACM or Staining
				ML	Silt, minor clay, brown, homogeneous, dry, medium density				Strong odour, No ACM or staining
		0.5					JB63_0.5-0.6		
		1							
		1.5		CL-ML	Weathered silty clay, brown, homogeneous, dry, low plasticity, stiff		JB63_1.5-1.6		Strong odour, No ACM or staining
		2					JB63_2.1-2.2		
		2.5					JB63_2.6-2.7		
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB64

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 250 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets		JB64 0-0.1		No Odour, Staining or ACM
				CL	Clay, light grey, highly plastic. No inclusions.		JB64 0.2-0.5		No Odour, Staining or ACM
		0.5					JB64 0.5-1		No Odour, Staining or ACM
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB65

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB65_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly silty sand, brown / grey, loose, dry, fine grained, heterogeneous, including gravel, shale, roadbase		JB65_0.2-0.3		Green / grey staining, No Odour or ACM
		0.5		Fill	Fill - Silty clay, red / brown & grey, firm / stiff, high plasticity (reworked), dry, homogeneous				No Odour, ACM or Staining
		1					JB65_1.0-1.1		
				CL-ML	Silty clay, red / brown, homogeneous, with orange & grey mottles, firm / stiff, high plasticity, dry		JB65_1.2-1.3		No Odour, ACM or Staining
		1.5							
		2		CL-ML	Silty clay, red / brown, homogeneous, with orange & grey mottles, firm / stiff, high plasticity, dry, including ironstone		JB65_2.1-2.2		No Odour, ACM or Staining
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB66/MW01

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,148.61
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,257,151.7
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.5		Fill	Fill - Clay, brown, damp, medium plasticity, firm, inclusions of roots, concrete, ceramic, bricks	SM	JB66/MW01 0-0.1		No Odour, Staining or ACM
							JB66/MW01 0.5-0.6		No Odour, Staining or ACM
		1		Fill	Fill - Clay, grey and brown, damp, medium - high plasticity, firm, trace inclusions of tiny bricks, ceramic frags	SM	JB66/MW01 1.0-1.1		No Odour, Staining or ACM
		1.5							
		2		Fill	Fill - Clay, dark black /brown, damp, medium - high plasticity, frim, inclusions of tiny glass, ceramics, gravels	SM	JB66/MW01 2.0-2.1		No Odour, Staining or ACM
		2.5							
		3					JB66/MW01 3.0-3.1		No Odour, Staining or ACM
		3.5							
		4		Fill	Fill - Clay, brown, damp, medium plasticity, frim, trace sand content, inclusions of trace rock	SM	JB66/MW01 4.0-4.1		No Odour, Staining or ACM
		4.5		CL	Clay, light brown / brown, damp, low - medium plasticity	SM			
		5					JB66/MW01 5.0-5.1		No Odour, Staining or ACM
		5.5							
		6		CL	Clay, light brown, damp, low plasticity, stiff	SM			No Odour, Staining

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Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		6.5					JB66/MW01 6.0-6.1		or ACM
		7					JB66/MW01 7.0-7.1		No Odour, Staining or ACM
		7.5							
		8							
		8.5							
		9							
		9.5							
		10			Termination Depth at:10.000 m.				
		10.5							
		11							
		11.5							
		12							
		12.5							
		13							

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SOIL BOREHOLE JB67

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5		Fill	Fill - Silty Clay, Brown, medium plasticity and moist, at 0.3 -2.0 reworked grey-black and light grey clay, highly plastic with organic inclusions, and scattered brick, shale and ironstone nodules throughout, sandy toward base with large basalt igneous rock inclusions		JB67 0.0-0.1 JB67 0.5-0.6 JB67 1.0-1.1 JB67 1.5-1.6 JB67 2.0-2.1 JB67 3.0-3.1	0.6 0.9 1.5 1.4 1.6 1.7	No Odour, ACM or Staining No Odour, ACM or Staining No Odour, ACM or Staining No Odour, ACM or Staining No Odour, ACM or Staining No Odour, ACM or Staining End of Testpit due to Excavator Reach

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SOIL BOREHOLE JB68

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB68_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly sandy silt, grey, heterogeneous, dry, loose, including gravels, concrete pebbles				No Odour, ACM or Staining
		0.5		Fill	Fill - Silty clay, brown, heterogeneous, stiff, dry, low plasticity, including brick, gravel, slag, concrete		JB68_0.5-0.6		No Odour, ACM or Staining
		1							
		1.5		Fill	Fill - Silty clay, grey / black, heterogeneous, stiff, dry, low plasticity, including brick, gravel, slag, concrete		JB68_1.3-1.4		No Odour, ACM or Staining
		2							
		2.5		CL-ML	Silty clay, red / brown, homogeneous, dry, stiff, medium plasticity		JB68_2.3-2.4		No Odour, ACM or Staining
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB69

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Pavers		JB69_0.05-0.1		No Odour, ACM or Staining
				Fill	Fill - Gravelly sandy silt, grey / brown, heterogeneous, dry, loose, including gravels				No Odour, ACM or Staining
		0.5		Fill	Fill - Silty clay, red / brown, dry, stiff, medium plasticity, including gravels		JB69_0.4-0.5		No Odour, ACM or Staining
				Fill	Fill - Shale, grey, hard, heterogeneous, dry, including gravels, brick, slag		JB69_0.7-0.8		No Odour, ACM or Staining
		1							
		1.5							
		2							
		2.5							
		3							
				CL-ML	Silty clay, brown, homogeneous, dry, stiff, medium plasticity		JB69_3.3-3.4		No Odour, ACM or Staining
		3.5							
				CL	Weathered clay, light grey / brown, homogeneous. dry, stiff. low plasticity		JB69_3.8-3.9		No Odour, ACM or Staining
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB70

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Sandy silty clay, heterogeneous, Dark Brown, moist with inclusions of roots and rootlets and crushed brick		JB70 0.0-0.1	1.2	No Odour, ACM or Staining
		0.5		Fill	Fill - Gravelly clay, heterogeneous, Light Brown, damp to dry loose, medium plasticity. Inclusions of small shale gravel and ironstone nodules		JB70 0.5-0.6	1	No Odour, ACM or Staining
		1					JB70 1.0-1.1	0.6	No Odour, ACM or Staining
		1.5		Fill	Fill - Silty, heterogeneous, many small inclusions of crushed gravel, shale and ironstone				
		2					JB70 2.1-2.2	0.9	No Odour, ACM or Staining
		2.5							End of Testpit due to Excavator Reach in Confined Area
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB75

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 250 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets Fill - Silty clay, (reworked) orange brown, firm		JB75 0-0.1 JB75 0.2-0.5 JB75 .5-1		No Odour, Staining or ACM No Odour, Staining or ACM No Odour, Staining or ACM

SOIL BOREHOLE JB76

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 251 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets Fill - Silty clay, (reworked) orange brown, firm		JB76 0-0.1 JB76 0.2-0.5		No Odour, Staining or ACM No Odour, Staining or ACM

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SOIL BOREHOLE JB77

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 257 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0		Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets		JB77 0-0.1		No Odour, Staining or ACM
				Fill	Fill - Silty clay, (reworked) grey brown, firm		JB77 0.2-0.5		No Odour, Staining or ACM
		0.5							
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB78

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 256 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets Fill - Silty clay, (reworked) grey brown, firm		JB78 0-0.1 JB78 0.2-0.5		No Odour, Staining or ACM No Odour, Staining or ACM

1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

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SOIL BOREHOLE JB79

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 255 mm	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.5		Fill Fill	Fill - Silty clay, dark brown, damp inclusions of rootlets Fill - Silty clay, (reworked) orange brown, firm		JB79 0-0.1 JB79 0.2-0.5 JB79 0.5-1		No Odour, Staining or ACM No Odour, Staining or ACM No Odour, Staining or ACM

SOIL BOREHOLE JB80

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty sandy topsoil, heterogeneous, Brown, high plasticity, with inclusions of beige bricks, and plastic		JB80 0.0-0.1	0.8	No Odour, ACM or Staining
		1		Fill	Fill - Gravelly silty sandy clay, heterogeneous, Light Brown, with small shale and ironstone nodules		JB80 0.5-0.6	0.4	No Odour, ACM or Staining
		1.5					JB80 1.0-1.1	0.6	End of Testpit due to Excavator Reach in Confined Area
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB81/MW02

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 307,959.86
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** 6,257,073.03
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0		Fill	Fill - Stabilised roadbase	D			
				Fill	Fill - Clay, brown, damp, homogenous, low plasticity	SM	JB81/MW02 0.1-0.2		No Odour, Staining or ACM
		0.5		Fill	Fill - Clay, brown, heterogeneous, low - medium plasticity, inclusion black grey shales	SM	JB81/MW02 0.5-0.6		No Odour, Staining or ACM
		1					JB81/MW02 0.9-1.0		No Odour, Staining or ACM
		1.5		Fill	Fill - Gravelly Clay, dark brown, heterogeneous, damp, low - medium plasticity, firm, inclusions of rock, crushed bricks, shales, plastic	SM	JB81/MW02 1.5-1.6		No Odour, Staining or ACM
		2					JB81/MW02 1.6-2.1		No Odour, Staining or ACM
		2.5					JB81/MW02 2.0-3.1		No Odour, Staining or ACM
		3		Fill	Fill - Clay, greyish brown, moist, heterogeneous, medium - high plasticity, inclusions of fine bricks, fine rocks, ironstones, shale	M	JB81/MW02 3.0-3.1		No Odour, Staining or ACM
		3.5							
		4		CH-MH	Silty Clay, light brown, moist, homogenous,medium - high plasticity, soft - firm, inclusions of fine rocks, gravels	M			
		4.5					JB81/MW02 4.6-4.7		No Odour, Staining or ACM
		5							
		5.5					JB81/MW02 5.5-5.6		No Odour, Staining or ACM
	▽	6							

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		6.5							
		7							
		7.5			Termination Depth at:7.500 m.				
		8							
		8.5							
		9							
		9.5							
		10							
		10.5							
		11							
		11.5							
		12							
		12.5							
		13							

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SOIL BOREHOLE JB82

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly silty sand, brown, damp, heterogeneous, low/medium plasticity, with inclusion of gravel and shale.		JB82 0.0-0.1 JB82 0.3-0.4		No ACM, odours or staining observed.
				Fill	Fill - Silty sandy clay, brown/grey, damp, heterogeneous, medium plasticity, with inclusion of shale.		JB82 0.5-0.6		No ACM, odours or staining observed.
		1							Refusal at 0.9 m bgs.
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB83

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5		Fill Fill Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, with inclusion of rootlets, gravels and traces of ash. Fill - Gravelly silty sand, light brown/grey, dry, heterogeneous, loose. Fill - Shale, grey, dry, heterogeneous, hard, with inclusion of clasts of clay		JB83 0.1-0.2 JB83 0.3-0.4 JB83 0.5-0.6 JB83 1.0-1.1 JB83 2.0-2.1		No ACM, odours or staining observed. No ACM, odours or staining observed. No ACM, odours or staining observed.

SOIL BOREHOLE JB84

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Gravelly sand, grey, dry, heterogeneous, very loose.		JB84 0.0-0.1 JB84 0.3-0.4		No ACM, odours or staining observed.
		1		Dolerite	Weathered dolerite, brown turns darker brown at 1.0 m bgs, dry, homogeneous.		JB84 0.5-0.6 JB84 1.0-1.1 JB84 1.4-1.5		No ACM, odours or staining observed.
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB85/MW04

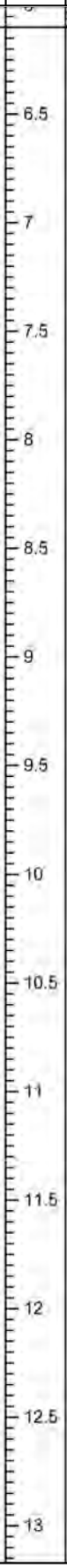
PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** 308,099.91
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** 6,256,940.99
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE** Surveyor
	DIAMETER 150 mm	**LOGGED BY** KY

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0		Fill	Fill - Stabilised roadbase	D			
				Fill	Fill - Sand, brown, damp, heterogeneous, coarse, dense, inclusions of fine glass, fine grounds, brick frag	SM	JB85/MW04 0.05-0.3		No Odour, Staining or ACM
				Fill		SM	JB85/MW04 0.3-0.5		No Odour, Staining or ACM
		0.5			Fill - Clay, reddish brown / dark brown with grey mottled, damp, heterogeneous, low - medim plasticity, inclusions of shale		JB85/MW04 0.5-1.0		No Odour, Staining or ACM
		1					JB85/MW04 1.0-1.1		No Odour, Staining or ACM
				Fill	Fill - Clay, brown, damp, heterogeneous, high plasticity, inclusions of shale	SM	JB85/MW04 1.2-1.4		No Odour, Staining or ACM
		1.5		CH-MH	Silty Clay, dark brown / black, moist, medium - high plasticity, soft, inclusions of roots, organics, shales	SM	JB85/MW04 1.6-2.2		No Odour, Staining or ACM
		2					JB85/MW04 2.0-2.2		No Odour, Staining or ACM
		2.5		CL	Clay, orange and grey mottled, homogenous, damp, medium plasticity, firm, stiff, inclusions of shales and roots	SM	JB85/MW04 2.5-2.9		No Odour, Staining
							JB85/MW04 2.6-2.8		No Odour, Staining or ACM
		3		CL	Clay, orange and white mottled, heterogeneous, dry, stiff, inclusions of shale chunkcs, some sand	D			
		3.5					JB85/MW04 3.4-3.5		No Odour, Staining or ACM
		4							
		4.5		Shale	Weathered Shale, grey with very fine sand.	SM			
		5					JB85/MW04 4.8-5.0		No Odour, Staining or ACM
		5.5							
		6							

SOIL BOREHOLE JB85/MW04

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
					Termination Depth at:6.100 m.				



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SOIL BOREHOLE JB86

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, firm, medium plasticity, with inclusion of bricks, gravels and plastic from 0 to 0.3 m bgs and metal pipe at 0.3 m bgs.		JB86 0.0-0.1 JB86 0.3-0.4 JB86 0.5-0.6 JB86 1.0-1.1 JB86 2.0-2.1		No ACM, odours or staining observed. Ground level.
				Fill	Fill - Silty clay, grey/brown, dry, heterogeneous, hard, high plasticity, with inclusion of wood.		JB86 3.0-3.1		No ACM, odours or staining observed.

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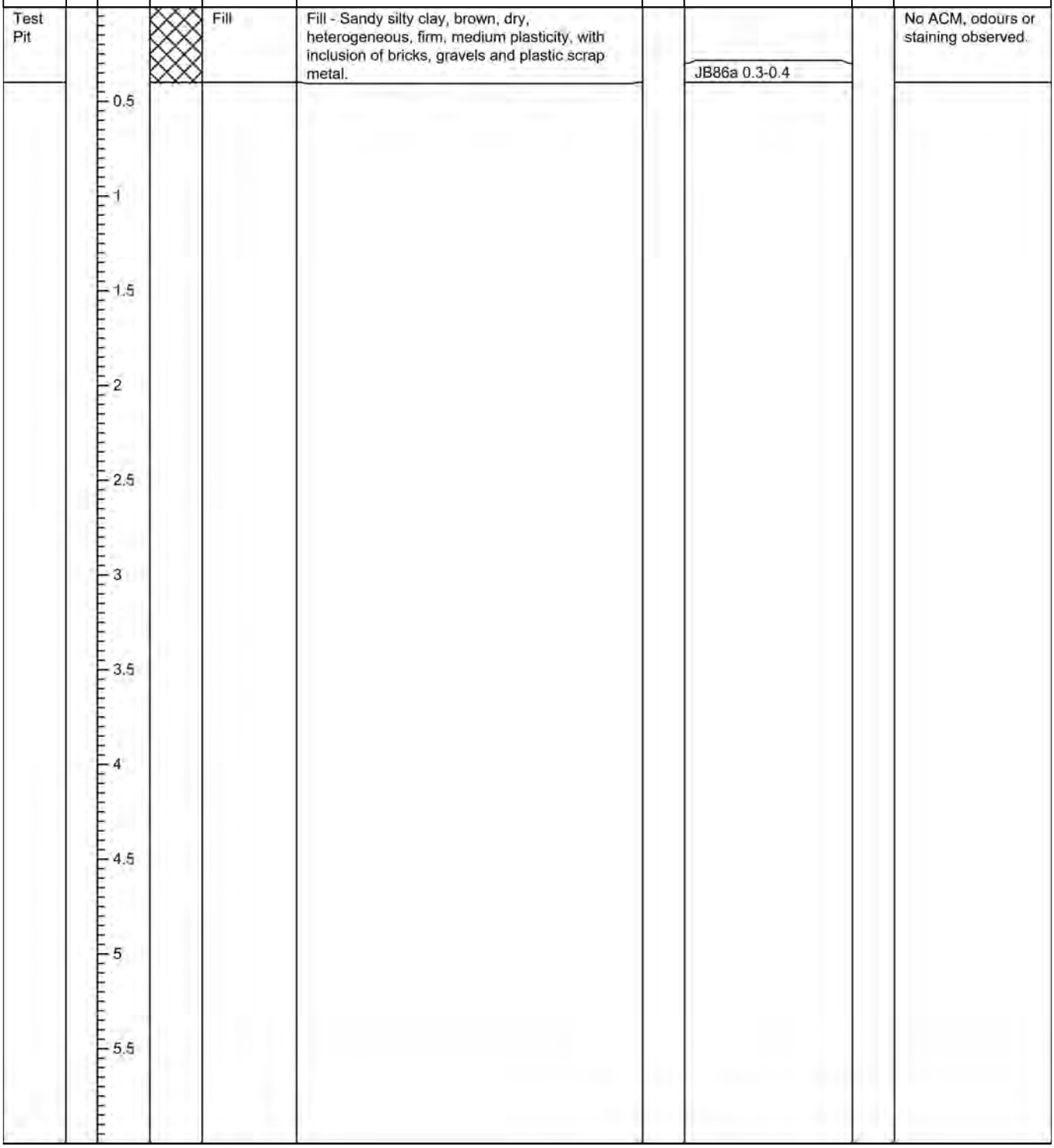
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SOIL BOREHOLE JB86a

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, firm, medium plasticity, with inclusion of bricks, gravels and plastic scrap metal.		JB86a 0.3-0.4		No ACM, odours or staining observed.



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SOIL BOREHOLE JB87

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5		Fill	Fill - Sandy silty clay, grey/brown, dry, heterogeneous, with inclusion of plastic and traces of bricks and shale.		JB87 0.0-0.1 JB87 0.3-0.4 JB87 0.5-0.6 JB87 1.0-1.1		No ACM, odours or staining observed.
		2 2.5 3		Fill	Fill - Silty clay, brown, dry, heterogeneous, with inclusion of traces of plastic.		JB87 2.0-2.1 JB87 3.0-3.1		No ACM, odours or staining observed. Ground level.
		3.5 4 4.5 5 5.5							

SOIL BOREHOLE JB88

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, firm, low plasticity, with inclusion of rootlets, bricks, concrete, and metal pipe.		JB88 0.0-0.1 JB88 0.3-0.4 JB88 0.5-0.6 JB88 1.0-1.1		No ACM, odours or staining observed.
		2 2.5 3		Fill	Fill - Silty clay, light brown turns grey at 2.5 m bgs, dry, heterogeneous, firm, medium plasticity, with inclusion of shale.		JB88 2.0-2.1 JB88 3.0-3.1		No ACM, odours or staining observed.
		3.5 4 4.5 5 5.5							

SOIL BOREHOLE JB88a

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 30-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sandy silty clay, brown, dry, heterogeneous, firm, low plasticity, with inclusion of bricks.				No ACM, odours or staining observed.

SOIL BOREHOLE JB89

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Clay, Heterogeneous, Brown: Low plasticity, firm consistency and dry with inclusions of gravel, brick and concrete boulders.		JB89 0.1-0.2	0.5	No Odour, ACM or Staining
							JB89 0.4-0.5	1.4	No Odour, ACM or Staining
		1					JB89 1.0-0.9	1.2	No Odour, ACM or Staining
		1.5		Fill	Fill - Sand, Heterogeneous, Blue Green: poorly graded, coarse and medium density.		JB89 1.8-1.9	1.2	No Odour, ACM or Staining
		2		Fill	Fill -Silty Clay, Heterogeneous, Brown, Low plasticity, firm consistency and dry with inclusions of gravel, brick and concrete boulders.		JB89 2.3-2.4	1.1	No Odour, ACM or Staining
		2.5			Termination Depth at:2.500 m.				End of Testpit due to Excavator Reach
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB89A

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill -Silty Clay, Heterogeneous, Brown, Low plasticity, firm consistency and dry with inclusions of gravel, brick and concrete boulders.		JB89A 0.2-0.3	1	No Odour, ACM or Staining End of Testpit at Base of Mound
					Termination Depth at:0.500 m.				

SOIL BOREHOLE JB90

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty sandy gravelly Clay, Heterogeneous, Brown. Low plasticity, firm consistency and dry with inclusions of gravel, brick and concrete boulders.		JB90 0.2-0.3	0.5	No Odour, ACM or Staining
							JB90 0.5-0.6	0.9	No Odour, ACM or Staining
					Termination Depth at 0.600 m.				End of Testpit due to Refusal on Concrete

1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

SOIL BOREHOLE JB91

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Clay, Homogenous, Brown, Low Plasticity, Soft consistency, Loose density		JB91 0.0-0.1	1.1	No Odour, ACM or Staining
		1		Fill	Fill - Clay, Heterogeneous, Brown, Low Plasticity, Medium density and damp, with inclusions of angular gravelly boulders, bricks and slate boulders		JB91 0.4-0.5	1.5	No Odour, ACM or Staining
		1.5							
		2					JB91 1.8-1.9	0.5	No Odour, ACM or Staining End of Testpit due to Refusal on Shale
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB93

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete and metal beam				No Odour, ACM or Staining
		0.5		Fill	Fill - Gravelly silty clay, heterogeneous, damp, brown, high plasticity, soft, including gravels		JB93_0.4-0.5		Strong diesel odour, No ACM or Staining
				Fill	Fill - Silty clay, brown with red mottles, homogeneous, dry, stiff, low plasticity				Slight odour, No ACM or staining
		1					JB93_1.0-1.1		
		1.5							
		2					JB93_2.0-2.1		
		2.5		Dolerite	Dolerite, brown, homogenous, very hard, dry		JB93_2.5-2.6		Slight odour, No ACM or staining
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB94

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty gravelly Clay, Heterogeneous, Brown, Low plasticity, firm consistency and dry with inclusions of brick and shale cobbles.		JB94 0.1-0.2	0.6	No Odour and Staining, ACM Fragment Found
		1		Fill	Fill -Clay, Heterogeneous, Black Grey, Medium plasticity, hard consistency and dry with inclusions of brick and shale fines.		JB94 0.9-1.0	0.8	No Odour, ACM or Staining
		1.5							
		2					JB94 1.9-2.0	0.4	No Odour, ACM or Staining
		2.5					JB94 2.4-2.5	0.9	No Odour, ACM or Staining
									End of Testpit due to Excavator Reach
		3			Termination Depth at:2.800 m.				
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB95

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sand, Heterogeneous, Red, poorly graded, coarse and loose density with inclusions of brick dust.		JB95 0.1-0.2	0.5	No Odour, ACM or Staining
		1					JB95 0.9-1.0	0.6	No Odour, ACM or Staining
		1.5					JB95 1.6-1.7	0.4	No Odour, ACM or Staining
		2		Fill	Fill - Silty, gravelly clay, Heterogeneous, Grey, Low plasticity, firm consistency and dry with inclusions of brick and shale boulders.		JB95 1.9-2.0	1.1	No Odour, ACM or Staining
		2.5			Termination Depth at:2.000 m.				End of Testpit due to Refusal on Concrete
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB96

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sand, Heterogeneous, Grey White mottles, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .		JB96 0.0-0.1	1.5	No Odour and Staining, ACM Fragment Found
							JB96 0.4-0.5	0.5	No Odour, ACM or Staining
		1					JB96 0.9-1.0	0.8	No Odour, ACM or Staining
		1.5							
		2					JB96 1.9-2.0	0.7	No Odour, ACM or Staining
									End of Testpit due to Refusal on Concrete
					Termination Depth at:2.200 m.				
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB97

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sand, Heterogeneous, Grey Brown, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .		JB97 0.1-0.2	0.5	No Odour, ACM or Staining
							JB97 0.4-0.5	0.4	No Odour, ACM or Staining
		1					JB97 0.9-1.0	0.2	No Odour, ACM or Staining
		1.5							
		2					JB97 1.9-2.0	0.8	No Odour, ACM or Staining
									End of Testpit due to Excavator Reach
		2.5			Termination Depth at:2.300 m.				
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB98

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sand, Heterogeneous, Grey Brown, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .		JB98-A	0.5	No Odour and Staining, ACM Fragment Found
							JB98 0.4-0.5	0.4	No Odour, ACM or Staining
		1					JB98 0.9-1.0	0.9	No Odour, ACM or Staining
		1.5							
		2					JB98 1.9-2.0	0.8	No Odour, ACM or Staining
					Termination Depth at:2.000 m.				End of Testpit due to Refusal on Concrete
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

SOIL BOREHOLE JB99

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Sand, Heterogeneous, Grey, poor graded, fine to coarse and loose density with inclusions of brick dust.		JB99 0.1-0.2	0.4	No Odour, ACM or Staining
				Fill	Fill - Sand, Heterogeneous, Red, poor graded, coarse and loose density with inclusions of brick dust.		JB99 0.4-0.5	0.6	No Odour, ACM or Staining
					Termination Depth at:0.600 m.				End of Testpit due to Refusal on Concrete

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SOIL BOREHOLE JB100

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 04-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Robert Sharp

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Silty Sand, Heterogeneous, Grey, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .		JB100 0.0-0.1	0.9	No Odour, ACM or Staining
				Fill	Fill - Silty Sand, Heterogeneous, Red, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .				No Odour, ACM or Staining
		1		Fill	Fill - Silty Sand, Heterogeneous, Grey, well graded, fine to coarse and loose density with inclusions of significant bricks and concrete .		JB100 0.4-0.5	1	
							JB100 1.2-1.3	0.8	No Odour, ACM or Staining
		1.5			Termination Depth at:1.400 m.				End of Testpit due to Refusal on Concrete and Brick
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB101

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete		JB101_0.15-0.2		No Odour, ACM or Staining
		0.5		Fill	Fill - Gravelly sandy silt, gold / brown, heterogenous, dry, dense, fine grained, including corroded, metal / rust, gravels				No Odour, ACM or Staining
		1					JB101_1.0-1.1		
		1.5		Fill	Fill - Gravelly sandy silt, gold / brown, heterogenous, dry, dense, fine grained, including bessa brick, corroded, metal / rust, gravels		JB101_1.5-1.6		No Odour, ACM or Staining
		2							
		2.5					JB101_2.3-2.4		
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB102

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Clay topsoil, heterogeneous, Brown, dry with inclusions of roots, rootlets, igneous gravel and roadbase				Visual Inspection Only, into cutting adjacent to 615A Great Western Highway
		0.5							
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB103

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Cole	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** Chris Kauffman

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5		Fill	Fill - Stabilised Sand, with inclusions of concrete and igeneous gravel		JB103 0.0-0.1	0.9	No Odour, ACM or Staining
				Fill					No Odour, ACM or Staining
				Dolerite	Fill - Stabilised Sand and concrete, with inclusions of large brick and igneous rock		JB103 0.4-0.5	0.9	End of Testpit on Natural as Per Scope
					Hard igneous Dolerite with crystalline possible iron oxide				

1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

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SOIL BOREHOLE JB104

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0		Concrete	Concrete				No Odour, ACM or Staining
				CL-ML	Weathered silty clay, grey with gold mottles, stiff, low plasticity, dry		JB104_0.2-0.3		No Odour, ACM or Staining
		0.5							
		1					JB104_1.0-1.1		
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB105

PROJECT NUMBER 58238	**DRILLING COMPANY** Terratest	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 05-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.5		Concrete Fill	Concrete Fill - Gravelly sandy silt, brown / gold, heterogeneous, dry, medium density, including gravels, slag, shale, sand layers, including green / grey crushed material		JB105_0.05-0.1 JB105_0.5-0.6		No Odour, ACM or Staining Slight chemical smell, no ACM or Staining

SOIL BOREHOLE JB11

PROJECT NUMBER 58238	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 29-Aug-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE**
	DIAMETER	**LOGGED BY** MN

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5		Fill Fill	Fill - Sandy gravel, grey, dry, heterogeneous, loose, with inclusion of shale. Fill - Shale, grey, dry, heterogeneous, hard.		JB11 0.0-0.1 JB11 0.3-0.4 JB11 0.5-0.6 JB11 1.0-1.1 JB11 1.4-1.5		No ACM, odours or staining observed. No ACM, odours or staining observed. Refusal at 1.5 m bgs.

SOIL BOREHOLE JB110

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		0		Fill	Heterogeneous brown Fill - Silty SAND. plasticity, consistency and damp with inclusions of trace rootlets and gravels.	D	JB110 0.0-0.1		No odours, staining or ACM observed.
		0.5		Fill	Heterogeneous grey Fill - CLAY. medium to high plasticity, soft consistency and damp.	D	JB110 0.6-0.7		No odours, staining or ACM observed.
	▽				Termination Depth at:0.800 m.				
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB111

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
	▽	0.5		Fill	Heterogeneous greyish brown Fill - Silty CLAY. medium plasticity, soft consistency and damp with inclusions of rootlets and gravels.	D	JB111 0.0-0.1 JB111 0.5-0.6		No odours, staining or ACM observed. No odours, staining or ACM observed.
		1 1.5 2 2.5 3 3.5 4 4.5 5 5.5			Termination Depth at:0.700 m.				

SOIL BOREHOLE JB112

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		0.5		Fill	Heterogeneous brown Fill - Silty CLAY. medium plasticity, soft consistency and damp with inclusions of rootlets and wood.	D	JB112 0.0-0.1		No odours, staining or ACM observed.
				Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp.	D	JB112 0.4-0.5		No odours, staining or ACM observed.
	▽	1			Termination Depth at:0.800 m.				
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB113

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		0.5		Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp.	D	JB113 0.0-0.1		No odours, staining or ACM observed.
	▽			Fill	Heterogeneous light brown Fill - CLAY. medium plasticity, firm consistency and damp.	D	JB113 0.4-0.5		No odours, staining or ACM observed.
					Termination Depth at:0.700 m.				

SOIL BOREHOLE JB114

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		0		Fill	Heterogeneous dark brown Fill Clayey SILT. low plasticity plasticity, firm consistency and damp with inclusions of trace gravels and wood.	D	JB114 0.0-0.1		No odours, staining or ACM observed.
		0.5		Fill	Heterogeneous brown Fill - CLAY. medium to high plasticity, firm consistency and damp.	D	JB114 0.5-0.6		No odours, staining or ACM observed.
	▽				Termination Depth at:0.800 m.				
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB115

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
	▽	0.5		Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp.	D	JB115 0.0-0.1 JB115 0.4-0.5		No odours, staining or ACM observed. No odours, staining or ACM observed.
					Termination Depth at:0.700 m.				
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB116

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
		0.5		Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp with inclusions of trace bitumen.	D	JB116 0.0-0.1		No odours, staining or ACM observed.
	▽	1		Fill	Heterogeneous brown Fill - CLAY. medium to high plasticity, firm consistency and damp with inclusions of trace gravels.	D	JB116 0.4-0.5		No odours, staining or ACM observed.
		1.5			Termination Depth at:1.000 m.				
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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SOIL BOREHOLE JB117

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
	▽	0.5		Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp.	D	JB117 0.0-0.1 JB117 0.4-0.5		No odours, staining or ACM observed. No odours, staining or ACM observed.
					Termination Depth at 0.600 m.				
		1							
		1.5							
		2							
		2.5							
		3							
		3.5							
		4							
		4.5							
		5							
		5.5							

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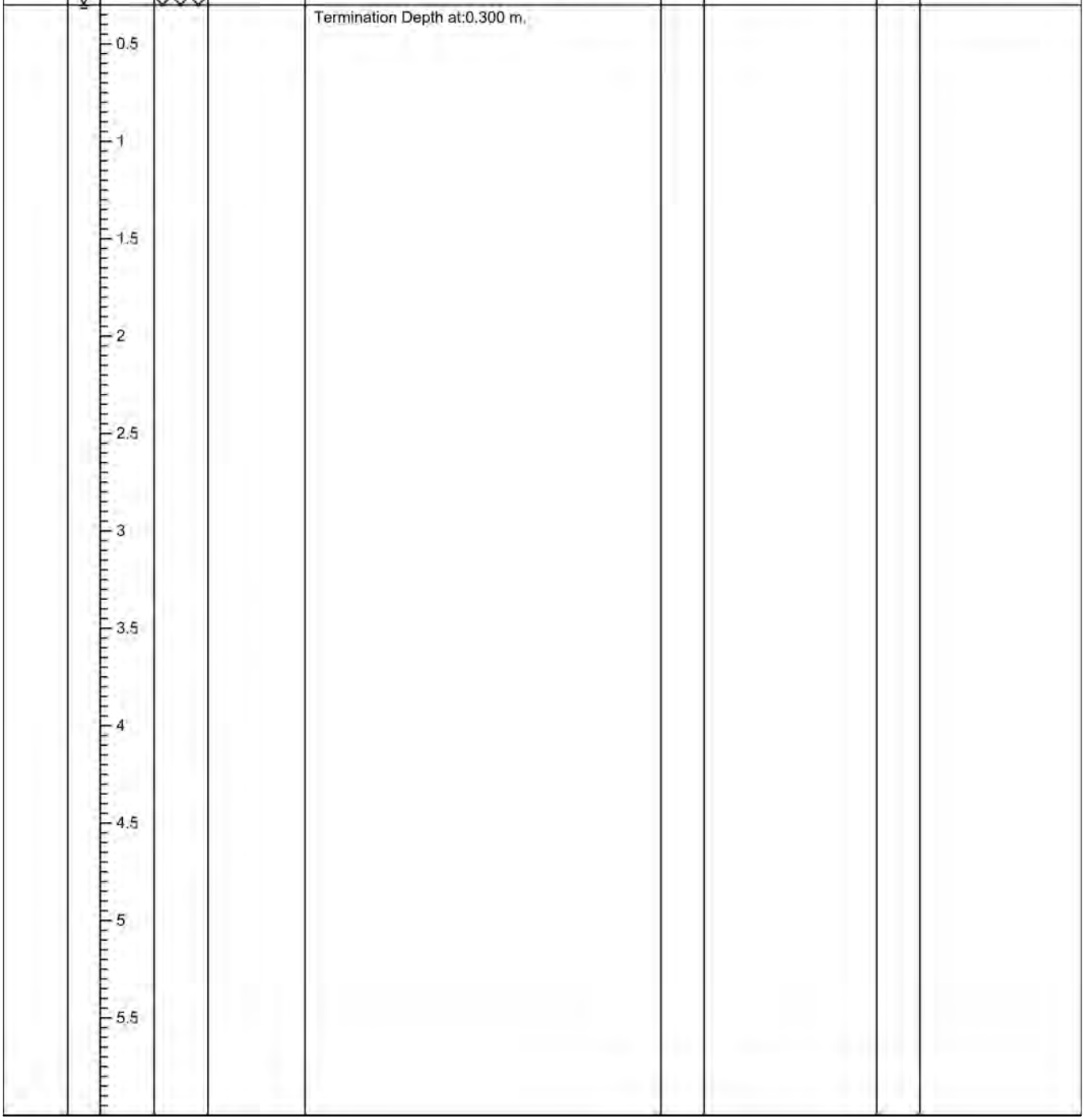
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SOIL BOREHOLE JB118

PROJECT NUMBER 58238	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME	**DRILLING DATE** 11-Sep-20	**NORTHING** N/A
CLIENT	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Clunies Ross St, Pemulwuy, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
	▽	0		Fill	Heterogeneous dark brown Fill - Silty CLAY. medium plasticity, soft consistency and damp.	D	JB118 0.0-0.1		No odours, staining or ACM observed.
					Termination Depth at:0.300 m.				



Disclaimer This log is intended for environmental not geotechnical purposes.

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Appendix F Detailed QA/QC Assessment

QA/QC Results

The QA/QC result for soil, water and soil vapour samples collected are summarised in **Table F.1** and discussed below. Detailed QA/QC results are included following the discussion of DQI exceedances below.

Table F.1: QA/QC Results Summary

Data Quality Indicator	Results	DQO met?
Precision		
Blind duplicates (intra laboratory)	Soil - 0-164% RPDs Water – 0-120% RPDs Vapour – 0—60% RPDs Intra laboratory samples were analysed at a rate greater than 1 in 20 samples.	Partial[1]
Blind duplicates (inter laboratory)	0-167% RPDs Water – 0-50% RPDs Inter laboratory were analysed at a rate greater than 1 in 20 samples.	Partial [1]
Laboratory duplicates	0-160% RPD Laboratory samples were analysed at a rate greater than 1 in 20 samples.	Partial [1]
Accuracy		
Laboratory control samples (LCS)	50-143% recovery Laboratory control samples were completed at a suitable density with respect to laboratory batch size and sample analyses.	Partial [1]
Surrogate spikes	12-183% Surrogate spikes were completed for all organic sample analyses	Partial [1]
Matrix spikes	57-134% recovery Matrix spikes were completed at a suitable density with respect to laboratory batch size and sample analyses.	Partial [1]
Representativeness		
Samples extracted and analysed within holding times	All primary and duplicate samples were extracted within appropriate holding times.	Yes
Sampling appropriate for media and analytes	Samples were collected using appropriate methodology with regard to the sample media (soil, water, soil vapour) and analytes (volatile, semi-volatile and low volatility organics and inorganics)	Yes
Trip spike	70-130% One completed per sampling event and associated laboratory batch	Yes
Trip blank	<LOR One completed per sampling event and associated laboratory batch	Yes
Rinsate blank	<LOR for most analytes in all rinsate blanks with some exceptions as discussed below. One completed per sampling event and associated laboratory batch	Partial [1]
Method blank (soil vapour only)	<LOR One completed per sampling event and associated laboratory batch	Yes
Equipment blank (soil vapour only)	<LOR One completed per sampling event and associated laboratory batch	Yes
Standard operating procedures used for sample collection and handling	Standard operating procedures used as listed in JBS&G (2017) employed for all sampling events and samples collected	Yes
Comparability		
Standard analytical methods used for all analyses	Standard analytical methods used as listed in JBS&G (2017)	Yes

Data Quality Indicator	Results	DQO met?
Consistent field conditions, field staff and laboratories	Sampling was conducted by the same field staff member. Standard operating procedures were implemented throughout the works. Field conditions remained the same throughout the works.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate	Yes
Completeness		
Soil description and COCs completed and appropriate	All field documentation and COCs were completed appropriately.	Yes
Appropriate documentation	All field documentation was appropriately completed.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation	Yes
Data from critical samples	Samples were analysed at locations designed to address the requirements of the RAP such that a suitable validation data set could be established. All critical samples were analysed for appropriate contaminants of concern and the QA/QC assessment confirmed the reliability of this data.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site validation criteria for all soil analytes.	Yes

Notes: 1. See discussion below for notes

Precision

Soil Blind Duplicates (intra laboratory)

The rate of blind duplicate sampling and analysis for soils was 9 blind duplicates per 164 primary samples for heavy metals (5.4%), 117 primary samples for TRH/BTEX (7.7%), 159 primary samples for PAHs (5.6%), 75 primary samples for PCBs (12%), 79 samples for OCPs (11.4%), 4 blind duplicates per 56 primary samples for VOCs (7.1%), 25 primary samples for PFAS (16%) and 3 blind duplicates per 15 primary samples for SVOCs (20%). It is noted blind duplicates for asbestos met the required sampling density of 1/20. As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency.

Chemical analytical data RPDs were generally within the DQI with the exception of several samples which reported DQIs between 0-164%. High RPDs in the blind duplicates can be expected when analyte concentrations are close the LOR and/or when materials are heterogeneous. On this basis, the data has generally identified to have met the DQIs for intra-laboratory duplicates and the elevated RPDs are considered a result of field/soil characteristics and not laboratory precision errors and as such do not to affect the overall reliability or precision of the data.

Soil Split Duplicates (inter laboratory)

The rate of split duplicate sampling and analysis for soils was 9 split duplicates per 164 primary samples for heavy metals (5.4%), 117 primary samples for TRH/BTEX (7.7%), 159 primary samples for PAHs (5.6%), 75 primary samples for PCBs (12%), 79 samples for OCPs (11.4%), 4 split duplicates per 56 primary samples for VOCs (7.1%), 25 primary samples for PFAS (16%) and 3 split duplicates per 15 primary samples for SVOCs (20%). It is noted split duplicates for asbestos met the required sampling density of 1/20. As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency.

Chemical analytical data RPDs were generally within the DQI with the exception of several samples which reported DQIs between 0-167%. High RPDs in the split duplicates can be expected when analyte concentrations are close the LOR and/or when materials are heterogeneous. On this basis, the data has generally identified to have met the DQIs for intra-laboratory duplicates and the elevated RPDs are considered a result of field/soil characteristics and not laboratory precision errors and as such do not to affect the overall reliability or precision of the data.

Water Blind Duplicates (Intra Laboratory)

The rate of blind duplicate sampling and analysis for water was 1 blind duplicate per 14 primary samples for heavy metals, PFAS, non-metallic inorganics, VOCs, TRH, BTEX (7.14%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency.

Chemical analytical data RPDs were all within the DQI of 70-130%.

Water Split Duplicates (Inter Laboratory)

The rate of split duplicate sampling and analysis for water was 1 split duplicate per 14 primary samples for heavy metals, PFAS, non-metallic inorganics, VOCs, TRH, BTEX (7.14%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency.

Chemical analytical data RPDs were all within the DQI of 70-130%.

Laboratory Duplicates

The laboratory completed a total of 69 laboratory duplicate soil samples, and 25 laboratory duplicate water samples, within the JBS&G acceptance criteria of 1 in 20 samples. Laboratory duplicates analysed generally had RPDs within the JBS&G DQI of 0%-50% with the exception of the following:

Lab Report Number	Sample Code	Field ID	Compound	Recovery %
Soil				
250482	250482-1DUP1	QC20200829-MN01	Anthracene	142
250482	250482-1DUP1	QC20200829-MN01	Anthracene	120
250482	250482-1DUP1	QC20200829-MN01	Pyrene	135
250482	250482-1DUP1	QC20200829-MN01	Pyrene	149
250482	250482-1DUP1	QC20200829-MN01	Benzo(g,h,i)perylene	90
250482	250482-1DUP1	QC20200829-MN01	Benzo(g,h,i)perylene	107
250482	250482-1DUP1	QC20200829-MN01	Total +ve PAHs	131
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)pyrene TEQ calc(half)	113
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)pyrene TEQ calc (zero)	113
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)pyrene TEQ calc(PQL)	113
250482	250482-1DUP1	QC20200829-MN01	Total +ve TRH (>C10-C40)	139
250482	250482-1DUP1	QC20200829-MN01	TRH C15 - C28	57
250482	250482-1DUP1	QC20200829-MN01	TRH >C16-C34	94
250482	250482-1DUP1	QC20200829-MN01	Dibenzo(a,h)anthracene	120
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)anthracene	134
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)anthracene	124
250482	250482-1DUP1	QC20200829-MN01	Phenanthrene	160
250482	250482-1DUP1	QC20200829-MN01	Phenanthrene	158
250482	250482-1DUP1	QC20200829-MN01	Fluorene	150
250482	250482-1DUP1	QC20200829-MN01	Acenaphthylene	133
250482	250482-1DUP1	QC20200829-MN01	Acenaphthylene	57
250482	250482-1DUP1	QC20200829-MN01	Chrysene	128
250482	250482-1DUP1	QC20200829-MN01	Chrysene	124
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)pyrene	114
250482	250482-1DUP1	QC20200829-MN01	Benzo(a)pyrene	107
250482	250482-1DUP1	QC20200829-MN01	Indeno(1,2,3-c,d)pyrene	88
250482	250482-1DUP1	QC20200829-MN01	Indeno(1,2,3-c,d)pyrene	107
250482	250482-1DUP1	QC20200829-MN01	Benzo(b,j+k)fluoranthene	131
250482	250482-1DUP1	QC20200829-MN01	Benzo(b+j+k)fluoranthene	133
250482	250482-1DUP1	QC20200829-MN01	Fluoranthene	139
250482	250482-1DUP1	QC20200829-MN01	Fluoranthene	151
251110	251110-1DUP1	QA20200911-1	Perfluorohexanoic acid	66
251110	251110-1DUP1	QA20200911-1	Total Positive PFAS	66

742668	NCP_Se11764_742668-DUP	-	Pyrene	66
742668	NCP_Se11764_742668-DUP	-	Benzo(g.h.i)perylene	57
742668	NCP_Se11764_742668-DUP	-	Benzo(b&j)fluoranthene	73
742668	NCP_Se11764_742668-DUP	-	Fluoranthene	68
742668	NCP_Se11764_742668-DUP	-	Benzo(k)fluoranthene	62
742668	NCP_Se11764_742668-DUP	-	Phenanthrene	100
742668	NCP_Se11764_742668-DUP	-	TRH C15-C28	51
742692	NCP_Se11764_742692-DUP	-	TRH C15-C28	51
742676	NCP_Se19347_742676-DUP	-	TRH >C16-C34	66
742039	S20-Se07107-DUP	JB48 0.9-1	Arsenic	83
742668	S20-Se13260-DUP	MW03	Ammonia (as N)	66
742668	S20-Se13261-DUP	MW06	Total Kjeldahl Nitrogen (as N)	66
742676	S20-Se13673-DUP	JB20_0.2-0.3	Lead	50
742676	S20-Se13730-DUP	JB98_1.9-2.0	Lead	58
742676	S20-Se13730-DUP	JB98_1.9-2.0	Zinc	83
744324	S20-Se26738-DUP	JBSED07	Arsenic	54
744324	S20-Se26742-DUP	JBSW05	Copper	66
742668	250482-1DUP1	QC20200829-MN01	Anthracene	142

High RPDs in the laboratory duplicate samples can be expected when materials are heterogeneous and/or when analyte concentrations are close to LOR. Therefore, the elevated RPDs are considered not to affect the overall precision of the data set.

Accuracy

Laboratory Control Samples

A total of 61 soil laboratory control samples (LCS), 28 water LCS and 7 LCS for vapour was undertaken, meeting the DQIs. LCS were generally reported as having recoveries within the JBS&G acceptable range of 70-130% with the exception of the following:

Matrix	Sample Code	SDG	Compound	Recovery %
soil	250482LCS-5	ENVIROLAB 2020-09-04T00:00:00	4-nitrophenol	50
soil	250482LCS-5	ENVIROLAB 2020-09-04T00:00:00	p,p-DDD	60
soil	250686LCS-1	ENVIROLAB 2020-09-08T00:00:00	Extracted ISTD 13C2 4:2FTS	135
soil	250686LCS-5	ENVIROLAB 2020-09-08T00:00:00	Heptachlor	69
soil	LCS_1_742039	742039	Perfluorododecanoic acid (PFDoDA)	131
soil	LCS_12_742039	742039	2.4.6-Trichlorophenol	59
soil	LCS_12_742039	742039	2-Nitrophenol	67
soil	LCS_12_742668	742668	Perfluorononanoic acid (PFNA)	143
water	LCS_2_742668	742668	Perfluorotridecanoic acid (PFTrDA)	66
soil	LCS_2_742676	742676	Perfluorononanoic acid (PFNA)	133
water	W251110LCS-W1	ENVIROLAB 2020-09-14T00:00:00	Extracted ISTD 13C2 4:2FTS	131
water	W251110LCS-W1	ENVIROLAB 2020-09-14T00:00:00	Extracted ISTD 13C2 8:2FTS	136
water	W251110LCS-W1	ENVIROLAB 2020-09-14T00:00:00	Extracted ISTD d5 N EtFOSAA	132

LCS were all reported within the laboratories NATA accredited limit of 50-150% and as such are considered to be acceptable and not considered to affect the accuracy of the data set.

Surrogate Spikes

Surrogate spikes were conducted in conjunction with organic contaminant analysis of all samples. All surrogate spikes reported recoveries within the JBS&G acceptable range of 70%-130% with the exception of several samples which reported recoveries between 12% and 183%.

The surrogate spike recoveries outside of the target range are not considered to affect the overall reliability of the data set as concentrations in samples were close to or below the laboratory's LOR and/or were generally within the laboratories NATA accredited limits (50%-150%). Spike recoveries outside of the NATA accredited limits are not considered to affect the accuracy of the data set, noting the primary constituents were generally reported below the laboratory LOR at the majority of locations, with contaminants reported significantly below the adopted site criteria.

Matrix Spikes

All matrix spikes reported recoveries within the JBS&G acceptable range of 70% – 130% with the exception of the following:

Matrix	Sample Code	SDG	Compound	Recovery %
soil	250482-3MS	250482	p,p-DDD	60
soil	250482-3MS	250482	bromodichloromethane	132
soil	250482-3MS	250482	2,6-dichlorophenol	62
soil	250482-3MS	250482	2-Methylphenol	66
soil	250482-3MS	250482	TRH C29 - C36	63
soil	250482-3MS	250482	TRH >C34-C40	63
soil	NCP_Au48170_742039-SPK	742039	4-Nitrophenol	47
soil	NCP_Au48170_742039-SPK	742039	Phenol	56
soil	NCP_Au48170_742039-SPK	742039	Pentachlorophenol	42
soil	NCP_Au48170_742039-SPK	742039	2-Chlorophenol	66
soil	NCP_Se13213_742668-SPK	742668	Perfluorononanoic acid (PFNA)	133
water	NCP_Se13256_742676-SPK	742676	Perfluoropropanesulfonic acid (PFPrS)	134
water	S20-Se13256-SPK	742668	Perfluoropropanesulfonic acid (PFPrS)	134
soil	S20-Se26726-SPK	744324	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	68
SOIL	S20-Se26726-SPK	744324	2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	63
SOIL	S20-Se26726-SPK	744324	Perfluorooctanesulfonic acid (PFOS)	61
SOIL	S20-Se26726-SPK	744324	Perfluoroundecanoic acid (PFUnDA)	68
SOIL	S20-Se26726-SPK	744324	N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	69
SOIL	S20-Se26726-SPK	744324	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	68
SOIL	S20-Se26726-SPK	744324	Perfluoropentanoic acid (PFPeA)	66
SOIL	S20-Se26726-SPK	744324	Perfluoropentanesulfonic acid (PFPeS)	64
SOIL	S20-Se26726-SPK	744324	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	58
SOIL	S20-Se26726-SPK	744324	N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	64
SOIL	S20-Se26726-SPK	744324	Perfluorohexanoic acid (PFHxA)	69
SOIL	S20-Se26726-SPK	744324	N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	66
SOIL	S20-Se26726-SPK	744324	Perfluorooctanoic acid (PFOA)	69
SOIL	S20-Se26726-SPK	744324	Perfluorohexanesulfonic acid (PFHxS)	62
SOIL	S20-Se26726-SPK	744324	Perfluorobutanoic acid (PFBA)	67
SOIL	S20-Se26726-SPK	744324	Perfluorobutanesulfonic acid (PFBS)	58
SOIL	S20-Se26726-SPK	744324	Perfluoroheptanoic acid (PFHpA)	67
SOIL	S20-Se26726-SPK	744324	Perfluorononanoic acid (PFNA)	67
SOIL	S20-Se26726-SPK	744324	Perfluorotetradecanoic acid (PFTeDA)	68
SOIL	S20-Se26726-SPK	744324	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	57
SOIL	S20-Se26726-SPK	744324	Perfluorononanesulfonic acid (PFNS)	64
SOIL	S20-Se26726-SPK	744324	Perfluorotridecanoic acid (PFTrDA)	54
SOIL	S20-Se26726-SPK	744324	Perfluorooctane sulfonamide (FOSA)	66
SOIL	S20-Se26726-SPK	744324	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	67
WATER	S20-Se26742-SPK	744324	N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	65

The laboratory noted that the matrix spike recoveries were outside the recommended acceptance criteria, indicating sample matrix interference in recovery of spiked concentrations. Given acceptable recoveries were obtained in corresponding laboratory control samples, the slight exceedances are considered not to have a significant effect to the overall evaluation of accuracy within the data set.

Representativeness

Sampling appropriate for media and analytes

All sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures as outlined in the Sampling, Analysis, and Quality Plan prepared for the assessment. Sample locations were undertaken for the purposes of visual inspection and/or olfactory assessment of fill/soil conditions and the collection of samples was considered appropriate for identified COPC. Furthermore, the assessment activities allow for the collection of representative bulk samples for leachate testing, replicating the process which will occur onsite during site development activities. All PIDs used throughout the field works were factory calibrated.

All samples were collected wearing a new pair of disposable nitrile gloves. Where possible, disturbance of the sample was minimised during placement within the laboratory supplied sample container and during shipment to reduce the potential for loss of VOCs within the samples.

Holding Times

Copies of Sample Receipt Notes (SRNs) are included in relevant sections of the report (**Appendix G**) and sample extraction/analysis dates were reported in each laboratory report. All soil analyses were undertaken within appropriate holding times for the respective analytes.

Trip Spike

Trip spikes were submitted with characterisation samples collected during the assessment. All trip spike recoveries were generally within the JBS&G acceptable limit of 70%-130%. A trip spike was submitted with each lab batch, not per chain of custody.

Storage Blank

A storage blank sample was carried during each characterisation soil and water sampling event and was submitted with each lab batch, not per chain of custody, meeting the overall nominated frequency thresholds. There were no reported concentrations of BTEX compounds above the laboratory LOR, achieving the nominated DQIs.

Rinsate Blank

Rinsate samples were prepared during each sampling event and subsequently submitted with each sample lab batch for analysis for key contaminants of concern. All subsequent contaminant concentrations were below the laboratory LOR with the exception of:

- Perfluorooctanesulfonic acid (PFOS) concentration of 0.02 ug/L in sample RIN01 dated 30 August 2020 from laboratory batch 742039;
- Metals (chromium, copper, nickel and zinc) concentrations in sample RIN0918 18 September 2020 marginally exceeded the laboratory LOR in laboratory batch 745190;

The aforementioned contaminants which slightly exceeded the laboratory LOR are considered attributed to the use of tap water to undertake decontamination procedures (refer to **Section 7.3**). Given the reported contaminant concentrations in both the rinsate and soil/water samples were generally lower than the concentrations of the primary samples and in the absence of gross of wide spread PFAS/heavy metal impact, this non-conformity is not considered to affect the overall representativeness and reliability of the data set.

In general, based on the results of the assessment, sufficient data has been collected to confidently demonstrate adequate decontamination procedures and that contaminant concentrations in one sample are not a result of impacts from the preceding sampling locations.

Method blank (soil vapour only)

A method blank sample was submitted with characterisation samples collected during the assessment. All reported concentrations of VOCs and TRH $C_6 – C_{10}$ fractions were below the laboratory LOR, achieving the nominated DQIs. A method blank was submitted with each lab batch.

Equipment blank (soil vapour only)

An equipment blank sample was submitted with characterisation samples collected during the assessment. All reported concentrations of VOCs and TRH $C_6 – C_{10}$ fractions were below the laboratory LOR, with the exception of a toluene concentration of 0.200 mg/m^3 (FB sample 5/09/2020). Noting the general absence of elevated toluene within all samples submitted as part of the investigation, the reported concentrations and absence of exceedances of the adopted site criteria, toluene in the field blank sample is considered to not affect the representativeness of the data set. Subsequent equipment blanks were reported to achieving the nominated DQIs.

Decontamination Comparability

All non-single use field equipment was decontaminated as per the procedure identified in **Section 7.3**.

Experienced JBS&G personnel undertook all sampling in accordance with standard JBS&G sampling methods as nominated in the DGI SAQP and daily field notes pertaining to implemented decontamination procedures are presented following.

The laboratory LORs are consistent and are considered appropriate.

Comparability

Eurofins, the primary laboratory, and Envirolab, the secondary laboratory were NATA accredited for all analytical methods used. The laboratories used similar analytical methods and the analytical data was considered to be comparable between the laboratories as indicated by the results of inter-laboratory duplicate analyses. Where different LORs were adopted by the laboratories, the primary laboratory typically had a lower LOR than the secondary laboratory, and as such, consideration of the data set was not impacted.

Furthermore, the samples collected for assessment purposes are considered comparable as all samples were collected by experienced JBS&G personnel in accordance with standard JBS&G sampling methods.

Completeness

Documentation

All laboratory documentation is complete and correct. Chain of custody documentation is provided with laboratory reports in **Appendix G.**

Frequency for QC Samples

QC sample frequency DQOs were achieved for all analyses including heavy metals, non-metallic inorganics, VOCs, TRH, BTEX, PAHs, PCBs, OCPs and asbestos, therefore the data set is complete and reliable.

Assessment of QA/QC

The field sampling and handling procedures produced QA/QC results which indicate that the collected soil, water and soil vapour analytical data are of an acceptable quality and suitable for use which respect to characterisation of the assessment area.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil, water and soil vapour data is of an acceptable quality in order to achieve the objectives of the validation assessment.

Appendix G Detailed Laboratory Certificates

#AU04_Enviro_Sample_NSW

Subject: FW: URGENT: FW: Additional PLE

Importance: High

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Tuesday, 22 September 2020 6:01 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: Additional PLE

EXTERNAL EMAIL*

Hi Ursula,

We need a couple of extra samples analysed for hexavalent on same day/overnight TAT if possible please?

JB20 0.2-0.3 (lab report 742676)
JB84 1.4-1.5 (lab report 742039)

Thanks,
Chris

Chris Kauffman | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong
Level 1, 50 Margaret Street Sydney NSW 2000
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43 Detroit Drive
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Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	ADDITIONAL PLE
Project ID:	58238
Turnaround time:	Overnight
Date/Time received	Sep 22, 2020 6:01 PM
Eurofins reference	745690

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 9.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL PLE
Project ID: 58238

Order No.:
Report #: 745690
Phone: 02 8245 0300
Fax:

Received: Sep 22, 2020 6:01 PM
Due: Sep 23, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Chromium (hexavalent)	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Newcastle Laboratory							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	JB20 0.2-0.3	Sep 05, 2020		Soil	S20-Se37628	X	X
2	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se37629	X	X
Test Counts						2	2

eurofins | Environment Testing

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745690-S**
Project name ADDITIONAL PLE
Project ID 58238
Received Date Sep 22, 2020

Client Sample ID			**JB20 0.2-0.3**	**JB84 1.4-1.5**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S20-Se37628**	**S20-Se37629**
Date Sampled			**Sep 05, 2020**	**Aug 29, 2020**
Test/Reference	LOR	Unit		
Chromium (hexavalent)	1	mg/kg	< 5	< 5
% Moisture	1	%	29	29

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Chromium (hexavalent)	Sydney	Sep 22, 2020	28 Days
- Method: In-house method E057.2			
% Moisture	Sydney	Sep 22, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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Sample Detail						Chromium (hexavalent)	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Newcastle Laboratory							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	JB20 0.2-0.3	Sep 05, 2020		Soil	S20-Se37628	X	X
2	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se37629	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se37628	CP	%	29	30	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	S20-Se37629	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Inorganic (NSW)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Envirolab Services Pty Ltd
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CERTIFICATE OF ANALYSIS 250482

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**58238, PLE**
Number of Samples	5 Soil
Date samples received	04/09/2020
Date completed instructions received	04/09/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	11/09/2020
Date of Issue	11/09/2020

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Team Leader, Inorganics
Dragana Tomas, Senior Chemist
Jaimie Loa-Kum-Cheung, Metals Supervisor
Josh Williams, Senior Chemist
Lucy Zhu, Asbestos Supervisor
Manju Dewendrage, Chemist
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in soil				
Our Reference		250482-1	250482-3	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020
Dichlorodifluoromethane	mg/kg	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1
chloroform	mg/kg	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1
Ethylbenzene	mg/kg	<1	<1	<1

VOCs in soil				
Our Reference		250482-1	250482-3	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil
bromoform	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
styrene	mg/kg	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1
Surrogate Dibromofluorometha	%	101	103	104
Surrogate aaa-Trifluorotoluene	%	111	122	116
Surrogate Toluene-d_8	%	99	97	97
Surrogate 4-Bromofluorobenzene	%	101	98	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	111	121	122	89	116

svTRH (C10-C40) in Soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	101	112	102	120	132

svTRH (C10-C40) in Soil		
Our Reference		250482-6
Your Reference	UNITS	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020
Type of sample		Soil
Date extracted	-	09/09/2020
Date analysed	-	09/09/2020
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	80

PAHs in Soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.4	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	1.4	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.8	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.7	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.90	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	8.9	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	94	97	98	100

PAHs in Soil		
Our Reference		250482-6
Your Reference	UNITS	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020
Type of sample		Soil
Date extracted	-	09/09/2020
Date analysed	-	09/09/2020
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.2
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.5
Anthracene	mg/kg	0.2
Fluoranthene	mg/kg	1.4
Pyrene	mg/kg	1.4
Benzo(a)anthracene	mg/kg	0.9
Chrysene	mg/kg	0.8
Benzo(b,j+k)fluoranthene	mg/kg	1
Benzo(a)pyrene	mg/kg	0.92
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5
Dibenzo(a,h)anthracene	mg/kg	0.1
Benzo(g,h,i)perylene	mg/kg	0.6
Total +ve PAH's	mg/kg	8.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.3
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.3
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.3
Surrogate p-Terphenyl-d14	%	101

SVOCs in Soil					
Our Reference		250482-1	250482-3	250482-5	250482-6
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020	29/08/2020	30/08/2020	29/08/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Phenol	mg/kg	<0.5	<0.5	<0.5	<0.5
Bis-(2-chloroethyl) ether	mg/kg	<1	<1	<1	<1
2-Chlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
2-Methylphenol	mg/kg	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
Bis (2-chloroisopropyl) ether	mg/kg	<1	<1	<1	<1
3/4-Methylphenol	mg/kg	<1	<1	<1	<1
N-nitrosodi-n-propylamine	mg/kg	<1	<1	<1	<1
Hexachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	mg/kg	<1	<1	<1	<1
Isophorone	mg/kg	<1	<1	<1	<1
2,4-Dimethylphenol	mg/kg	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane	mg/kg	<1	<1	<1	<1
2,4-Dichlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	mg/kg	<1	<1	<1	<1
Hexachlorobutadiene	mg/kg	<0.5	<0.5	<0.5	<0.5
4-Chloro-3-methylphenol	mg/kg	<5	<5	<5	<5
2-Methylnaphthalene	mg/kg	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	mg/kg	<2	<2	<2	<2
2,4,6-trichlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
2,4,5-trichlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	mg/kg	<0.5	<0.5	<0.5	<0.5
2-nitroaniline	mg/kg	<1	<1	<1	<1
Dimethylphthalate	mg/kg	<1	<1	<1	<1
2,6-Dinitrotoluene	mg/kg	<1	<1	<1	<1
Acenaphthylene	mg/kg	<0.5	<0.5	<0.5	<0.5
3-Nitroaniline	mg/kg	<1	<1	<1	<1
Acenaphthene	mg/kg	<0.5	<0.5	<0.5	<0.5

SVOCs in Soil					
Our Reference		250482-1	250482-3	250482-5	250482-6
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020	29/08/2020	30/08/2020	29/08/2020
Type of sample		Soil	Soil	Soil	Soil
2,4-dinitrophenol	mg/kg	<10	<10	<10	<10
4-nitrophenol	mg/kg	<10	<10	<10	<10
Dibenzofuran	mg/kg	<1	<1	<1	<1
diethylphthalate	mg/kg	<1	<1	<1	<1
4-chlorophenylphenylether	mg/kg	<1	<1	<1	<1
4-nitroaniline	mg/kg	<1	<1	<1	<1
Fluorene	mg/kg	<0.5	<0.5	<0.5	<0.5
2-methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10
azobenzene	mg/kg	<1	<1	<1	<1
4-bromophenylphenylether	mg/kg	<1	<1	<1	<1
hexachlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
pentachlorophenol	mg/kg	<5	<5	<5	<5
Phenanthrene	mg/kg	0.6	<0.5	<0.5	<0.5
Anthracene	mg/kg	<0.5	<0.5	<0.5	<0.5
carbazole	mg/kg	<1	<1	<1	<1
di-n-butylphthalate	mg/kg	<1	<1	<1	<1
Fluoranthene	mg/kg	1	<0.5	<0.5	1
Pyrene	mg/kg	1	<0.5	<0.5	1
butylbenzylphthalate	mg/kg	<1	<1	<1	<1
bis(2-ethylhexyl)phthalate	mg/kg	<5	<5	<5	<5
Benzo(a)anthracene	mg/kg	0.7	<0.5	<0.5	0.7
Chrysene	mg/kg	0.7	<0.5	<0.5	0.7
di-n-octylphthalate	mg/kg	<1	<1	<1	<1
Benzo(b+j+k)fluoranthene	mg/kg	1	<1	<1	1
Benzo(a)pyrene	mg/kg	0.9	<0.5	<0.5	0.9
Indeno(1,2,3-c,d)pyrene	mg/kg	0.6	<0.5	<0.5	0.6
Dibenzo(a,h)anthracene	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.6	<0.5	<0.5	0.6
ethylmethanesulfonate	mg/kg	<1	<1	<1	<1
aniline	mg/kg	<1	<1	<1	<1
pentachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
benzyl alcohol	mg/kg	<1	<1	<1	<1
acetophenone	mg/kg	<1	<1	<1	<1
N-nitrosomorpholine	mg/kg	<1	<1	<1	<1
N-nitrosopiperidine	mg/kg	<1	<1	<1	<1
2,6-dichlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5

SVOCs in Soil					
Our Reference		250482-1	250482-3	250482-5	250482-6
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020	29/08/2020	30/08/2020	29/08/2020
Type of sample		Soil	Soil	Soil	Soil
hexachloropropene-1	mg/kg	<0.5	<0.5	<0.5	<0.5
N-nitroso-n-butylamine	mg/kg	<1	<1	<1	<1
safrole	mg/kg	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	mg/kg	<1	<1	<1	<1
cis and trans iso-safrole	mg/kg	<1	<1	<1	<1
1,3-dinitrobenzene	mg/kg	<1	<1	<1	<1
pentachlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
1-naphthylamine	mg/kg	<1	<1	<1	<1
2,3,4,6-tetrachlorophenol	mg/kg	<0.5	<0.5	<0.5	<0.5
2-naphthylamine	mg/kg	<1	<1	<1	<1
5-nitro-o-toluidine	mg/kg	<1	<1	<1	<1
diphenylamine	mg/kg	<1	<1	<1	<1
phenacetin	mg/kg	<1	<1	<1	<1
pentachloronitrobenzene	mg/kg	<1	<1	<1	<1
dinoseb	mg/kg	<1	<1	<1	<1
methapyrilene	mg/kg	<1	<1	<1	<1
p-dimethylaminoazobenzene	mg/kg	<1	<1	<1	<1
2-acetylaminofluorene	mg/kg	<0.5	<0.5	<0.5	<0.5
7,12-dimethylbenz(a)anthracene	mg/kg	<0.5	<0.5	<0.5	<0.5
3-methylcholanthrene	mg/kg	<0.5	<0.5	<0.5	<0.5
a-BHC	mg/kg	<0.5	<0.5	<0.5	<0.5
b-BHC	mg/kg	<0.5	<0.5	<0.5	<0.5
g-BHC	mg/kg	<0.5	<0.5	<0.5	<0.5
d-BHC	mg/kg	<0.5	<0.5	<0.5	<0.5
Heptachlor	mg/kg	<0.5	<0.5	<0.5	<0.5
Aldrin	mg/kg	<0.5	<0.5	<0.5	<0.5
Heptachlor Epoxide	mg/kg	<0.5	<0.5	<0.5	<0.5
g-Chlordane	mg/kg	<0.5	<0.5	<0.5	<0.5
a-Chlordane	mg/kg	<0.5	<0.5	<0.5	<0.5
Endosulfan I	mg/kg	<0.5	<0.5	<0.5	<0.5
p,p'-DDE	mg/kg	<0.5	<0.5	<0.5	<0.5
Dieldrin	mg/kg	<0.5	<0.5	<0.5	<0.5
Endrin	mg/kg	<0.5	<0.5	<0.5	<0.5
p,p'-DDD	mg/kg	<0.5	<0.5	<0.5	<0.5
Endosulfan II	mg/kg	<0.5	<0.5	<0.5	<0.5
Endrin Aldehyde	mg/kg	<0.5	<0.5	<0.5	<0.5

SVOCs in Soil					
Our Reference		250482-1	250482-3	250482-5	250482-6
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830	QC20200829-MN01 - [TRIPLICATE]
Date Sampled		29/08/2020	29/08/2020	30/08/2020	29/08/2020
Type of sample		Soil	Soil	Soil	Soil
p,p'-DDT	mg/kg	<0.5	<0.5	<0.5	<0.5
Endrin Ketone	mg/kg	<0.5	<0.5	<0.5	<0.5
Endosulfan Sulphate	mg/kg	<0.5	<0.5	<0.5	<0.5
Methoxychlor	mg/kg	<1	<1	<1	<1
Surrogate 2-fluorophenol	%	101	95	102	102
Surrogate Phenol-d_6	%	87	77	85	81
Surrogate Nitrobenzene-d_5	%	111	109	111	99
Surrogate 2-fluorobiphenyl	%	113	113	114	115
Surrogate 2,4,6-Tribromophenol	%	74	82	88	70
Surrogate p-Terphenyl-d_{14}	%	100	99	101	101

Organochlorine Pesticides in soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	99	99	100	101

PCBs in Soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	99	99	100	101

Acid Extractable metals in soil						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Arsenic	mg/kg	<4	<4	<4	<4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	9	6	5	68	7
Copper	mg/kg	28	38	25	21	21
Lead	mg/kg	64	5	2	6	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	10	5	68	33
Zinc	mg/kg	67	29	14	26	45
Aluminium	mg/kg	4,200	4,900	5,600	10,000	3,800
Iron	mg/kg	8,900	11,000	6,500	32,000	43,000

Misc Soil - Inorg				
Our Reference		250482-1	250482-3	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN03	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020
Free Cyanide in soil	mg/kg	<0.5	<0.5	<0.5

Moisture						
Our Reference		250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference	UNITS	QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/09/2020	08/09/2020	08/09/2020	08/09/2020	08/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Moisture	%	9.8	12	10	25	15

Asbestos ID - soils NEPM - ASB-001						
Our Reference	UNITS	250482-1	250482-2	250482-3	250482-4	250482-5
Your Reference		QC20200829-MN01	QC20200829-MN02	QC20200829-MN03	QCJB01-0829	QCJB-2-0830
Date Sampled		29/08/2020	29/08/2020	29/08/2020	29/08/2020	30/08/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	11/09/2020	11/09/2020	11/09/2020	11/09/2020	11/09/2020
Sample mass tested	g	704.77	714.88	748.15	386.81	451.19
Sample Description	-	Brown coarse-grained soil & rocks	Beige coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown clayey soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

PFAS in Soils Short			
Our Reference		250482-1	250482-5
Your Reference	UNITS	QC20200829-MN01	QCJB-2-0830
Date Sampled		29/08/2020	30/08/2020
Type of sample		Soil	Soil
Date prepared	-	10/09/2020	10/09/2020
Date analysed	-	10/09/2020	10/09/2020
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	99	101
Surrogate $^{13}C_2$ *PFOA*	%	98	92
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	96	93
Extracted ISTD $^{13}C_4$ *PFOA*	%	111	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	104	97
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	119	97
Total Positive PFHxS & PFOS	µg/kg	0.2	<0.1
Total Positive PFOS & PFOA	µg/kg	0.2	<0.1
Total Positive PFAS	µg/kg	0.2	<0.1

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-014	Cyanide - free, total, weak acid dissociable by segmented flow analyser (in line dialysis with colourimetric finish). Solids/Filters and sorbents are extracted in a caustic media prior to analysis. Impingers are pH adjusted as required prior to analysis. Cyanides amenable to Chlorination - samples are analysed untreated and treated with hyperchlorite to assess the potential for chlorination of cyanide forms. Based on APHA latest edition, 4500-CN_G,H.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	113	123
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	1	<1	<1	0	113	117
2,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	110	116
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	107	116
1,1-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	89	96
bromodichloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	122	132
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	110	116
1,2-dibromoethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	109	115
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluorometha	%		Org-023	104	1	101	103	2	105	102
Surrogate aaa-Trifluorotoluene	%		Org-023	93	1	111	127	13	112	122
Surrogate Toluene-d_8	%		Org-023	100	1	99	98	1	103	101
Surrogate 4-Bromofluorobenzene	%		Org-023	99	1	101	97	4	98	99

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	120	118
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	120	118
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	119	108
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	122	123
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	127	118
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	117	121
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	123	124
naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	123	1	111	127	13	129	122

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			10/09/2020	1	09/09/2020	09/09/2020		10/09/2020	10/09/2020
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	97	95
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	180	57	87	86
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	120	18	123	63
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	97	95
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	280	95	87	86
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	123	63
Surrogate o-Terphenyl	%		Org-020	78	1	101	126	22	95	102

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	0.1	0	92	88
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	1	133	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	89
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	0.7	150	93	91
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	0.6	5.4	160	99	93
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.3	1.8	143	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	1.4	7.8	139	98	93
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	1.4	7.3	136	98	93
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	4.1	135	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	0.7	3.2	128	102	94
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	1	4.8	131	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	0.90	3.3	114	97	78
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	0.5	1.3	89	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.1	0.4	120	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	0.6	1.6	91	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	101	1	101	95	6	98	94

QUALITY CONTROL: SVOCs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Phenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	90	72
Bis-(2-chloroethyl) ether	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2-Chlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	80	72
1,3-Dichlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-Dichlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	91	90
2-Methylphenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	84	66
1,2-Dichlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bis (2-chloroisopropyl) ether	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
3/4-Methylphenol	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
N-nitrosodi-n-propylamine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Hexachloroethane	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Nitrobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Isophorone	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bis(2-chloroethoxy)methane	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2,4-Trichlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Naphthalene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	94	92
4-Chloroaniline	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Hexachlorobutadiene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
4-Chloro-3-methylphenol	mg/kg	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2-Methylnaphthalene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Hexachlorocyclopentadiene	mg/kg	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2,4,6-trichlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2,4,5-trichlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2-Chloronaphthalene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
2-nitroaniline	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Dimethylphthalate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	82	76
2,6-Dinitrotoluene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	0.9	57	[NT]	[NT]
3-Nitroaniline	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	108	106
2,4-dinitrophenol	mg/kg	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
4-nitrophenol	mg/kg	10	Org-022/025	<10	1	<10	<10	0	50	78
Dibenzofuran	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
diethylphthalate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	92	90
4-chlorophenylphenylether	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: SVOCs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
4-nitroaniline	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Fluorene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	0.5	0	102	100
2-methyl-4,6-dinitrophenol	mg/kg	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
azobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
4-bromophenylphenylether	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
hexachlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
pentachlorophenol	mg/kg	5	Org-022/025	<5	1	<5	<5	0	84	94
Phenanthrene	mg/kg	0.5	Org-022/025	<0.5	1	0.6	5.2	159	96	93
Anthracene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	2	120	[NT]	[NT]
carbazole	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
di-n-butylphthalate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.5	Org-022/025	<0.5	1	1	7.2	151	108	104
Pyrene	mg/kg	0.5	Org-022/025	<0.5	1	1	6.9	149	106	102
butylbenzylphthalate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
bis(2-ethylhexyl)phthalate	mg/kg	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.5	Org-022/025	<0.5	1	0.7	3	124	[NT]	[NT]
Chrysene	mg/kg	0.5	Org-022/025	<0.5	1	0.7	3	124	90	84
di-n-octylphthalate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Benzo(b+j+k)fluoranthene	mg/kg	1	Org-022/025	<1	1	1	5	133	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.5	Org-022/025	<0.5	1	0.9	3	108	105	92
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	Org-022/025	<0.5	1	0.6	2	108	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.5	Org-022/025	<0.5	1	0.6	2	108	[NT]	[NT]
ethylmethanesulfonate	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
aniline	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
pentachloroethane	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
benzyl alcohol	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
acetophenone	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
N-nitrosomorpholine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
N-nitrosopiperidine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2,6-dichlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	82	62
hexachloropropene-1	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
N-nitroso-n-butylamine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
safrole	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
1,2,4,5-tetrachlorobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
cis and trans iso-safrole	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
1,3-dinitrobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
pentachlorobenzene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1-naphthylamine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2,3,4,6-tetrachlorophenol	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]

QUALITY CONTROL: SVOCs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
2-naphthylamine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
5-nitro-o-toluidine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
diphenylamine	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
phenacetin	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
pentachloronitrobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
dinoseb	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
methapyrilene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
p-dimethylaminoazobenzene	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
2-acetylaminofluorene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
7,12-dimethylbenz(a)anthracene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
3-methylcholanthrene	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
a-BHC	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	110	106
b-BHC	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	98	94
g-BHC	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
d-BHC	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Heptachlor	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	96	96
Aldrin	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	96	96
Heptachlor Epoxide	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	104	102
g-Chlordane	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
a-Chlordane	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Endosulfan I	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
p,p'-DDE	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	120	118
Dieldrin	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	110	104
Endrin	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	94	90
p,p'-DDD	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	60	60
Endosulfan II	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
p,p'-DDT	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Endrin Ketone	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.5	Org-022/025	<0.5	1	<0.5	<0.5	0	76	78
Methoxychlor	mg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	108	1	101	100	1	102	95
Surrogate Phenol-d_6	%		Org-022/025	101	1	87	98	12	110	94
Surrogate Nitrobenzene-d_5	%		Org-022/025	118	1	111	108	3	112	110
Surrogate 2-fluorobiphenyl	%		Org-022/025	120	1	113	114	1	113	112
Surrogate 2,4,6-Tribromophenol	%		Org-022/025	99	1	74	74	0	95	81
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	104	1	100	99	1	102	98

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	80	78
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	85	83
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	69	71
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	90
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	91	90
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	91
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	89
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	102
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	85
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	78	78
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	101	1	102	100	2	98	97

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	80	80
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	101	1	102	100	2	98	97

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	250482-3
Date prepared	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	103	96
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	100	83
Chromium	mg/kg	1	Metals-020	<1	1	9	7	25	91	92
Copper	mg/kg	1	Metals-020	<1	1	28	27	4	89	106
Lead	mg/kg	1	Metals-020	<1	1	64	72	12	89	84
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	0.1	0	80	74
Nickel	mg/kg	1	Metals-020	<1	1	7	7	0	91	87
Zinc	mg/kg	1	Metals-020	<1	1	67	64	5	92	91
Aluminium	mg/kg	10	Metals-020	<10	1	4200	4100	2	111	#
Iron	mg/kg	10	Metals-020	<10	1	8900	7100	22	112	#

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	250482-3
Date prepared	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	09/09/2020
Free Cyanide in soil	mg/kg	0.5	Inorg-014	<0.5	1	<0.5	<0.5	0	100	94

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			10/09/2020	[NT]	[NT]	[NT]	[NT]	10/09/2020	[NT]
Date analysed	-			10/09/2020	[NT]	[NT]	[NT]	[NT]	10/09/2020	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	124	[NT]	[NT]	[NT]	[NT]	123	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil: # Percent recovery is not possible to report due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

PAHs in Soil - The laboratory RPD acceptance criteria has been exceeded for 250482-1. Therefore a triplicate result has been issued as laboratory sample number 250482-6.

SVOCs in Soil - The laboratory RPD acceptance criteria has been exceeded for 250482-1. Therefore a triplicate result has been issued as laboratory sample number 250482-6.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Note: All samples analysed as received. However, samples 250482-4 & 5 are below the minimum 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

Enviolab COC

CHAIN OF CUSTODY

24264

JBS&G

PROJECT NO.: P S8238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK
DATE NEEDED BY: Std	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .ckaufmann.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* other metals = cyanide(free), iron, aluminium + iron

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	5A	VOC	sVOC	Other Metals	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QC20200829-MN01	soil	29.8.20		J+B+PFAS		X	X	X	X	X			
2	" " " -MN02				J+D		X							
3	" " " -MN03				J+B+PFAS		X	X	X	X				
4	QCJB01-0829				J+B+PFAS		X							
5	QCJB02-0830		30.8.20		J+B		X	X	X	X	X			

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 290482

Date Received: 4/9/20

Time Received: 1448

Received By: CM

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2-9-20	CONSIGNMENT NOTE NO.	NAME: C.Mullen	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 4/9/20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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CERTIFICATE OF ANALYSIS 250686

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**58238, PLE**
Number of Samples	6 Soil
Date samples received	08/09/2020
Date completed instructions received	08/09/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	15/09/2020
Date of Issue	15/09/2020

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Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Alexander Mitchell Maclean, Senior Chemist
Diego Bigolin, Team Leader, Inorganics
Dragana Tomas, Senior Chemist
Jaimie Loa-Kum-Cheung, Metals Supervisor
Lucy Zhu, Asbestos Supervisor
Manju Dewendrage, Chemist

Authorised By



Nancy Zhang, Laboratory Manager

VOCs in soil		
Our Reference		250686-3
Your Reference	UNITS	QC20200905-1
Date Sampled		05/09/2020
Type of sample		Soil
Date extracted	-	09/09/2020
Date analysed	-	09/09/2020
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1

VOCs in soil		
Our Reference		250686-3
Your Reference	UNITS	QC20200905-1
Date Sampled		05/09/2020
Type of sample		Soil
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	99
Surrogate aaa-Trifluorotoluene	%	120
Surrogate Toluene-d_8	%	98
Surrogate 4-Bromofluorobenzene	%	100

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	124	120	123	118

svTRH (C10-C40) in Soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	10/09/2020	10/09/2020	10/09/2020	10/09/2020
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	120	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	130	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	130	<50	<50	<50
Surrogate o-Terphenyl	%	92	130	131	84

PAHs in Soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	99	97	100

Organochlorine Pesticides in soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	98	101	98	101

PCBs in Soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	98	101	98	101

Acid Extractable metals in soil					
Our Reference		250686-1	250686-3	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Arsenic	mg/kg	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	29	2	11
Copper	mg/kg	27	25	4	17
Lead	mg/kg	21	7	1	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	13	41	2	16
Zinc	mg/kg	230	30	4	42
Aluminium	mg/kg	3,600	11,000	[NA]	[NA]
Manganese	mg/kg	200	240	[NA]	[NA]
Iron	mg/kg	17,000	27,000	[NA]	[NA]

Misc Soil - Inorg			
Our Reference		250686-1	250686-3
Your Reference	UNITS	QC20200904-1	QC20200905-1
Date Sampled		04/09/2020	05/09/2020
Type of sample		Soil	Soil
Date prepared	-	09/09/2020	09/09/2020
Date analysed	-	09/09/2020	09/09/2020
Free Cyanide in soil	mg/kg	<0.5	<0.5

Moisture						
Our Reference		250686-1	250686-3	250686-4	250686-5	250686-6
Your Reference	UNITS	QC20200904-1	QC20200905-1	QC20200905-2	QC20200905-CK1	QC20200905-CK2
Date Sampled		04/09/2020	05/09/2020	05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/09/2020	08/09/2020	08/09/2020	08/09/2020	08/09/2020
Date analysed	-	09/09/2020	09/09/2020	09/09/2020	09/09/2020	09/09/2020
Moisture	%	3.0	26	26	15	13

Asbestos ID - soils NEPM - ASB-001				
Our Reference	UNITS	250686-3	250686-5	250686-6
Your Reference		QC20200905-1	QC20200905-CK1	QC20200905-CK2
Date Sampled		05/09/2020	05/09/2020	05/09/2020
Type of sample		Soil	Soil	Soil
Date analysed	-	14/09/2020	14/09/2020	14/09/2020
Sample mass tested	g	571.59	821.81	666.32
Sample Description	-	Brown clayey soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001

PFAS in Soils Extended		
Our Reference		250686-4
Your Reference	UNITS	QC20200905-2
Date Sampled		05/09/2020
Type of sample		Soil
Date prepared	-	11/09/2020
Date analysed	-	11/09/2020
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	94
Surrogate $^{13}C_2$ *PFOA*	%	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	90
Extracted ISTD $^{18}O_2$ *PFHxS*	%	88
Extracted ISTD $^{13}C_4$ *PFOS*	%	86
Extracted ISTD $^{13}C_4$ *PFBA*	%	81

PFAS in Soils Extended		
Our Reference		250686-4
Your Reference	UNITS	QC20200905-2
Date Sampled		05/09/2020
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	88
Extracted ISTD $^{13}C_2$ *PFHxA*	%	83
Extracted ISTD $^{13}C_4$ *PFHpA*	%	92
Extracted ISTD $^{13}C_4$ *PFOA*	%	90
Extracted ISTD $^{13}C_5$ *PFNA*	%	91
Extracted ISTD $^{13}C_2$ *PFDA*	%	91
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	110
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	126
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	85
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	74
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	102
Extracted ISTD $^{13}C_8$ *FOSA*	%	80
Extracted ISTD d_3 *N MeFOSA*	%	83
Extracted ISTD d_5 *N EtFOSA*	%	87
Extracted ISTD d_7 *N MeFOSE*	%	93
Extracted ISTD d_9 *N EtFOSE*	%	86
Extracted ISTD d_3 *N MeFOSAA*	%	76
Extracted ISTD d_5 *N EtFOSAA*	%	89
Total Positive PFHxS & PFOS	µg/kg	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1
Total Positive PFAS	µg/kg	<0.1

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-014	Cyanide - free, total, weak acid dissociable by segmented flow analyser (in line dialysis with colourimetric finish). Solids/Filters and sorbents are extracted in a caustic media prior to analysis. Impingers are pH adjusted as required prior to analysis. Cyanides amenable to Chlorination - samples are analysed untreated and treated with hyperchlorite to assess the potential for chlorination of cyanide forms. Based on APHA latest edition, 4500-CN_G,H.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
bromodichloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	122	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluorometha	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	93	[NT]	[NT]	[NT]	[NT]	112	[NT]
Surrogate Toluene-d_8	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	120	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	120	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	119	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	122	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	127	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	117	[NT]
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	123	[NT]
naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	123	1	124	114	8	129	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			10/09/2020	1	10/09/2020	10/09/2020		10/09/2020	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	97	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	87	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	120	110	9	123	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	97	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	130	120	8	87	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	123	[NT]
Surrogate o-Terphenyl	%		Org-020	78	1	92	104	12	95	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	97	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	101	1	98	98	0	98	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	80	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	85	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	69	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	91	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	78	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	101	1	98	100	2	98	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	80	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	101	1	98	100	2	98	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Date analysed	-			09/09/2020	1	09/09/2020	09/09/2020		09/09/2020	[NT]
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	103	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	100	[NT]
Chromium	mg/kg	1	Metals-020	<1	1	19	25	27	91	[NT]
Copper	mg/kg	1	Metals-020	<1	1	27	34	23	89	[NT]
Lead	mg/kg	1	Metals-020	<1	1	21	26	21	89	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	80	[NT]
Nickel	mg/kg	1	Metals-020	<1	1	13	17	27	91	[NT]
Zinc	mg/kg	1	Metals-020	<1	1	230	320	33	92	[NT]
Aluminium	mg/kg	10	Metals-020	<10	1	3600	4600	24	111	[NT]
Manganese	mg/kg	1	Metals-020	<1	1	200	260	26	94	[NT]
Iron	mg/kg	10	Metals-020	<10	1	17000	24000	34	112	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Free Cyanide in soil	mg/kg	0.5	Inorg-014	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			11/09/2020	[NT]	[NT]	[NT]	[NT]	11/09/2020	[NT]
Date analysed	-			11/09/2020	[NT]	[NT]	[NT]	[NT]	11/09/2020	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	95	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	118	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	110	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	111	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	109	[NT]
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	109	[NT]	[NT]	[NT]	[NT]	111	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	116	[NT]	[NT]	[NT]	[NT]	117	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	56	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	116	[NT]	[NT]	[NT]	[NT]	135	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	124	[NT]	[NT]	[NT]	[NT]	123	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	83	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	77	[NT]	[NT]	[NT]	[NT]	83	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	118	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	109	[NT]	[NT]	[NT]	[NT]	114	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

017079

CHAIN OF CUSTODY

pg 1/1

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PEE	SAMPLERS:
DATE NEEDED BY: Stadad	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....C.Kauffman.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals*	PAHs	TPH / BTEX	Asbestos soil	OCPs/PCBs	VOCs	SVOCs	6:2 PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA20200904-1	soil	4/9/20	1	J		x	x	x	x		x						* other metals = aluminium, manganese iron $ cyanide (free)
↓ -2	↓	↓	2	↓													
QC20200905-1		5/9/20	3	J+B		x	x	x	x	x	x	x					
-2			4	PFAs										x			
-CK1			5	J+B		x		x	x	x	x						
-CK2	↓	↓	6	J+B		x		x	x	x	x						

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 250686

Date Received: 8/9/2020

Time Received: 10:20

Received By: R

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 6.9.20	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 8/9/2020 10:20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 250687

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Linz
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**58238, PLE**
Number of Samples	1 Water
Date samples received	08/09/2020
Date completed instructions received	08/09/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

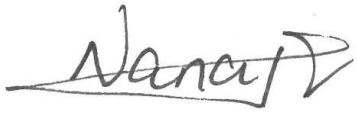
Date results requested by	15/09/2020
Date of Issue	17/09/2020
Reissue Details	This report replaces R00 created on 14/09/2020 due to: Project ID Amended (Client Request)

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Jaimie Loa-Kum-Cheung, Metals Supervisor
Priya Samarawickrama, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date extracted	-	09/09/2020
Date analysed	-	10/09/2020
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	93
Surrogate toluene-d8	%	99
Surrogate 4-BFB	%	98

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	250687-1
Your Reference		QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date extracted	-	09/09/2020
Date analysed	-	10/09/2020
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	93
Surrogate toluene-d8	%	99
Surrogate 4-BFB	%	98

svTRH (C10-C40) in Water		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date extracted	-	09/09/2020
Date analysed	-	10/09/2020
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Surrogate o-Terphenyl	%	79

PAHs in Water - Low Level		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date extracted	-	09/09/2020
Date analysed	-	09/09/2020
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	100

HM in water - dissolved		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date prepared	-	09/09/2020
Date analysed	-	09/09/2020
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	6
Zinc-Dissolved	µg/L	9

Miscellaneous Inorganics		
Our Reference		250687-1
Your Reference	UNITS	QC20200905
Date Sampled		05/09/2020
Type of sample		Water
Date prepared	-	08/09/2020
Date analysed	-	08/09/2020
Ammonia as N in water	mg/L	0.21
Nitrate as N in water	mg/L	0.03
Nitrite as N in water	mg/L	0.048
NOx as N in water	mg/L	0.07
TKN in water	mg/L	0.4
Organic Nitrogen as N	mg/L	<0.2
Total Nitrogen in water	mg/L	0.4

Method ID	Methodology Summary
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			10/09/2020	[NT]	[NT]	[NT]	[NT]	10/09/2020	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	94	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-BFB	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			10/09/2020	[NT]	[NT]	[NT]	[NT]	10/09/2020	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	111	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	111	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	109	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	94	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-BFB	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			10/09/2020	[NT]	[NT]	[NT]	[NT]	10/09/2020	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate o-Terphenyl	%		Org-020	104	[NT]	[NT]	[NT]	[NT]	120	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	80	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	90	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Date analysed	-			09/09/2020	[NT]	[NT]	[NT]	[NT]	09/09/2020	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			08/09/2020	[NT]	[NT]	[NT]	[NT]	08/09/2020	[NT]
Date analysed	-			08/09/2020	[NT]	[NT]	[NT]	[NT]	08/09/2020	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	102	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	98	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	101	[NT]
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	98	[NT]
TKN in water	mg/L	0.1	Inorg-062	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Nutrients
Samples were out of the recommended holding time for this analysis.

8/4 1/1

PROJECT NO.: 58738	LABORATORY BATCH NO.:
PROJECT NAME: PIC	SAMPLERS: ML
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Bottles = 1x Amb, 2x vial, 1x Pulp, 1x green, 1x metal

(1)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Metals	VOC	TRH/BTEX	PAH (11)	M.M	Ammonia	Nitrate/nitrite	Nitrogen speciated	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC20200905	water	5-9-20	-	Bottles + vial + Ice			2	2	2	2	2	2	2			
[redacted]																

ENVIROLAB GROUP

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 250687

Date Received: 8/9/2020

Time Received: 1020

Received By: RP

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Hitz DATE: 5-9-20.	CONSIGNMENT NOTE NO.	NAME: Ray	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	DATE: 8/9/2020 10:20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO_Forms013 – Chain of Custody – Generic

Envirolab Services Pty Ltd
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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 251110

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Swinfield
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**58238**
Number of Samples	1 Water, 1 Soil
Date samples received	14/09/2020
Date completed instructions received	14/09/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

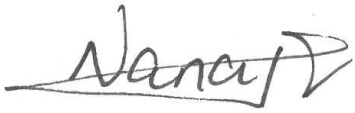
Date results requested by	21/09/2020
Date of Issue	16/09/2020

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By



Nancy Zhang, Laboratory Manager

PFAS in Waters Extended		
Our Reference		251110-1
Your Reference	UNITS	QA20200911-1
Date Sampled		11/09/2020
Type of sample		Water
Date prepared	-	15/09/2020
Date analysed	-	15/09/2020
Perfluorobutanesulfonic acid	µg/L	<0.01
Perfluoropentanesulfonic acid	µg/L	<0.01
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	<0.02
Perfluoropentanoic acid	µg/L	<0.02
Perfluorohexanoic acid	µg/L	0.01
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
10:2 FTS	µg/L	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfon amide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	101
Surrogate $^{13}C_2$ *PFOA*	%	97
Extracted ISTD $^{13}C_3$ *PFBS*	%	111
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	99
Extracted ISTD $^{13}C_4$ *PFBA*	%	103

PFAS in Waters Extended		
Our Reference		251110-1
Your Reference	UNITS	QA20200911-1
Date Sampled		11/09/2020
Type of sample		Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	123
Extracted ISTD $^{13}C_2$ *PFHxA*	%	106
Extracted ISTD $^{13}C_4$ *PFHpA*	%	131
Extracted ISTD $^{13}C_4$ *PFOA*	%	128
Extracted ISTD $^{13}C_5$ *PFNA*	%	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	103
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	103
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	115
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	55
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	136
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	138
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	131
Extracted ISTD $^{13}C_8$ *FOSA*	%	107
Extracted ISTD d_3 *N MeFOSA*	%	96
Extracted ISTD d_5 *N EtFOSA*	%	93
Extracted ISTD d_7 *N MeFOSE*	%	109
Extracted ISTD d_9 *N EtFOSE*	%	104
Extracted ISTD d_3 *N MeFOSAA*	%	116
Extracted ISTD d_5 *N EtFOSAA*	%	133
Total Positive PFHxS & PFOS	µg/L	<0.01
Total Positive PFOA & PFOS	µg/L	<0.01
Total Positive PFAS	µg/L	0.01

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			15/09/2020	1	15/09/2020	15/09/2020		15/09/2020	[NT]
Date analysed	-			15/09/2020	1	15/09/2020	15/09/2020		15/09/2020	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	92	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	97	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	94	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	99	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	94	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	99	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	98	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	89	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	1	0.01	0.02	67	94	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	95	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	93	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	93	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	98	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	99	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	99	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	89	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	1	<0.5	<0.5	0	97	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	91	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	1	<0.01	<0.01	0	90	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	80	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	93	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	96	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	102	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/L	0.1	Org-029	<0.1	1	<0.1	<0.1	0	93	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/L	0.05	Org-029	<0.05	1	<0.05	<0.05	0	96	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/L	0.5	Org-029	<0.5	1	<0.5	<0.5	0	93	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	98	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	1	<0.02	<0.02	0	86	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	98	1	101	106	5	104	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	97	1	97	97	0	96	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	116	1	111	111	0	112	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	102	1	101	103	2	102	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	100	1	99	96	3	103	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	104	1	103	102	1	107	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	119	1	123	120	2	120	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	107	1	106	105	1	108	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	118	1	131	134	2	117	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	116	1	128	130	2	118	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	101	1	108	110	2	105	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	103	1	103	107	4	105	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	116	1	103	116	12	117	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	125	1	115	124	8	121	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	93	1	55	68	21	95	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	121	1	136	140	3	131	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	117	1	138	144	4	115	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	125	1	131	123	6	136	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	109	1	107	109	2	107	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	102	1	96	101	5	101	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	98	1	93	98	5	99	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	112	1	109	110	1	112	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	103	1	104	99	5	105	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	119	1	116	106	9	116	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	125	1	133	125	6	132	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab. 1 of 1 24471

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: Sra 58238 | LABORATORY BATCH NO.:
PROJECT NAME: Prospect D41 | SAMPLERS: M.S.
DATE NEEDED BY: Std. | QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) m.smith@jbsg.com.au; (3) s.kenthman@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA20200911-1	water	11-9		PFAS. Bottle		X			
2	↓ -2	soil	↓		↓ J+B		X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

ENVIROLAB

Job No: 25110
Date Received: 14/09/2020.
Time Received: 12.40
Received By: RL
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 11.9.20.	CONSIGNMENT NOTE NO.	NAME: R. Chazeen	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/09/2020 12:40	COOLER TEMP ..... deg C 11
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Swinfield

Sample Login Details

Your reference	58238
Envirolab Reference	251110
Date Sample Received	14/09/2020
Date Instructions Received	14/09/2020
Date Results Expected to be Reported	21/09/2020

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water, 1 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	11
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in Waters Extended	On Hold
QA20200911-1	✓	
QA20200911-2		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

24252

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.: 741371
PROJECT NAME: PLE	SAMPLERS: CK
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* TRH to report F1 + F2 fractions.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOC 8260	TRH	Isopropanol	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
VP01	~~Soil~~ Air	29.8.20		1x Carbon Tube		x	x	x			
VP02											
VP03											
VP06											
VP07											
VP08											
VP09											
VP10		30.8.20									
VP11											
VP12											
VP13											
VP14/15											
VP16											
VP17											
VP18											
VP19											
~~Method Blank~~											
Field Blank											
Equipment Blank											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 1.9.20	CONSIGNMENT NOTE NO.	NAME: Greg DATE: 1/9	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

eurofins | Environment Testing

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NATA # 1261 Site # 20794

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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 1, 2020 5:37 PM
Eurofins reference	741371

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✗	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 741371
Phone: 02 8245 0300
Fax:

Received: Sep 1, 2020 5:37 PM
Due: Sep 8, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Newcastle Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	VP01 (FRONT)	Aug 29, 2020		Air	S20-Se02040	X	X	X
2	VP01 (BACK)	Aug 29, 2020		Air	S20-Se02041	X	X	X
3	VP02 (FRONT)	Aug 29, 2020		Air	S20-Se02042	X	X	X
4	VP02 (BACK)	Aug 29, 2020		Air	S20-Se02043	X	X	X
5	VP03 (FRONT)	Aug 29, 2020		Air	S20-Se02044	X	X	X
6	VP03 (BACK)	Aug 29, 2020		Air	S20-Se02045	X	X	X
7	VP06	Aug 29, 2020		Air	S20-Se02046	X	X	X

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
	(FRONT)							
8	VP06 (BACK)	Aug 29, 2020		Air	S20-Se02047	X	X	X
9	VP07 (FRONT)	Aug 29, 2020		Air	S20-Se02048	X	X	X
10	VP07 (BACK)	Aug 29, 2020		Air	S20-Se02049	X	X	X
11	VP08 (FRONT)	Aug 29, 2020		Air	S20-Se02050	X	X	X
12	VP08 (BACK)	Aug 29, 2020		Air	S20-Se02051	X	X	X
13	VP09 (FRONT)	Aug 29, 2020		Air	S20-Se02052	X	X	X
14	VP09 (BACK)	Aug 29, 2020		Air	S20-Se02053	X	X	X
15	VP10 (FRONT)	Aug 30, 2020		Air	S20-Se02054	X	X	X
16	VP10 (BACK)	Aug 30, 2020		Air	S20-Se02055	X	X	X

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Contact Name: Chris Kauffman

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
17	VP11 (FRONT)	Aug 30, 2020		Air	S20-Se02056	X	X	X
18	VP11 (BACK)	Aug 30, 2020		Air	S20-Se02057	X	X	X
19	VP12 (FRONT)	Aug 30, 2020		Air	S20-Se02058	X	X	X
20	VP12 (BACK)	Aug 30, 2020		Air	S20-Se02059	X	X	X
21	VP13 (FRONT)	Aug 30, 2020		Air	S20-Se02060	X	X	X
22	VP13 (BACK)	Aug 30, 2020		Air	S20-Se02061	X	X	X
23	VP15 (FRONT)	Aug 30, 2020		Air	S20-Se02062	X	X	X
24	VP15 (BACK)	Aug 30, 2020		Air	S20-Se02063	X	X	X
25	VP16 (FRONT)	Aug 30, 2020		Air	S20-Se02064	X	X	X

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Received: Sep 1, 2020 5:37 PM
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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
26	VP16 (BACK)	Aug 30, 2020		Air	S20-Se02065	X	X	X
27	VP17 (FRONT)	Aug 30, 2020		Air	S20-Se02066	X	X	X
28	VP17 (BACK)	Aug 30, 2020		Air	S20-Se02067	X	X	X
29	VP18 (FRONT)	Aug 30, 2020		Air	S20-Se02068	X	X	X
30	VP18 (BACK)	Aug 30, 2020		Air	S20-Se02069	X	X	X
31	VP19 (FRONT)	Aug 30, 2020		Air	S20-Se02070	X	X	X
32	VP19 (BACK)	Aug 30, 2020		Air	S20-Se02071	X	X	X
33	FIELD BLANK (FRONT)	Aug 30, 2020		Air	S20-Se02072	X	X	X
34	FIELD BLANK (BACK)	Aug 30, 2020		Air	S20-Se02073	X	X	X

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Project Name: PLE
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Received: Sep 1, 2020 5:37 PM
Due: Sep 8, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
35	EQUIPMENT BLANK (FRONT)	Aug 30, 2020		Air	S20-Se02074	X	X	X
36	EQUIPMENT BLANK (BACK)	Aug 30, 2020		Air	S20-Se02075	X	X	X
Test Counts						36	36	36

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **741371-A**
Project name PLE
Project ID 58238
Received Date Sep 01, 2020

Client Sample ID			**VP01 (FRONT)**	**VP01 (BACK)**	**VP02 (FRONT)**	**VP02 (BACK)**
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S20-Se02040**	**S20-Se02041**	**S20-Se02042**	**S20-Se02043**
Date Sampled			**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	29	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		29	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	71	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		71	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	0.8	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP01 (FRONT)	VP01 (BACK)	VP02 (FRONT)	VP02 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02040	S20-Se02041	S20-Se02042	S20-Se02043
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	0.6	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	0.6	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	97	97	96	101
4-Bromofluorobenzene (surr.)	1	%	95	96	93	96
Dibromofluoromethane (surr.)	1	%	95	97	96	95
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP03 (FRONT)	VP03 (BACK)	VP06 (FRONT)	VP06 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02044	S20-Se02045	S20-Se02046	S20-Se02047
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP03 (FRONT)	VP03 (BACK)	VP06 (FRONT)	VP06 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02044	S20-Se02045	S20-Se02046	S20-Se02047
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	97	96	97	99
4-Bromofluorobenzene (surr.)	1	%	93	94	93	97
Dibromofluoromethane (surr.)	1	%	95	97	95	95
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP07 (FRONT)	VP07 (BACK)	VP08 (FRONT)	VP08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02048	S20-Se02049	S20-Se02050	S20-Se02051
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP07 (FRONT)	VP07 (BACK)	VP08 (FRONT)	VP08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02048	S20-Se02049	S20-Se02050	S20-Se02051
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	97	97	97	101
4-Bromofluorobenzene (surr.)	1	%	94	93	92	98
Dibromofluoromethane (surr.)	1	%	95	96	95	94
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP09 (FRONT)	VP09 (BACK)	VP10 (FRONT)	VP10 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02052	S20-Se02053	S20-Se02054	S20-Se02055
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP09 (FRONT)	VP09 (BACK)	VP10 (FRONT)	VP10 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02052	S20-Se02053	S20-Se02054	S20-Se02055
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	95	97	95	97
4-Bromofluorobenzene (surr.)	1	%	94	95	93	97
Dibromofluoromethane (surr.)	1	%	95	94	96	94
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP11 (FRONT)	VP11 (BACK)	VP12 (FRONT)	VP12 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02056	S20-Se02057	S20-Se02058	S20-Se02059
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20

Client Sample ID			VP11 (FRONT)	VP11 (BACK)	VP12 (FRONT)	VP12 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02056	S20-Se02057	S20-Se02058	S20-Se02059
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	1.2	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	93	96	94	96
4-Bromofluorobenzene (surr.)	1	%	92	95	93	95
Dibromofluoromethane (surr.)	1	%	95	95	95	95
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP11 (FRONT)	VP11 (BACK)	VP12 (FRONT)	VP12 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02056	S20-Se02057	S20-Se02058	S20-Se02059
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP13 (FRONT)	VP13 (BACK)	VP15 (FRONT)	VP15 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02060	S20-Se02061	S20-Se02062	S20-Se02063
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	0.6	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP13 (FRONT)	VP13 (BACK)	VP15 (FRONT)	VP15 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02060	S20-Se02061	S20-Se02062	S20-Se02063
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	98	103	99	101
4-Bromofluorobenzene (surr.)	1	%	95	98	95	98
Dibromofluoromethane (surr.)	1	%	101	102	101	102
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP16 (FRONT)	VP16 (BACK)	VP17 (FRONT)	VP17 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02064	S20-Se02065	S20-Se02066	S20-Se02067
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	35	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	35	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP16 (FRONT)	VP16 (BACK)	VP17 (FRONT)	VP17 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02064	S20-Se02065	S20-Se02066	S20-Se02067
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	32	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	99	101	100	102
4-Bromofluorobenzene (surr.)	1	%	97	97	96	98
Dibromofluoromethane (surr.)	1	%	101	103	102	101
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP18 (FRONT)	VP18 (BACK)	VP19 (FRONT)	VP19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02068	S20-Se02069	S20-Se02070	S20-Se02071
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP18 (FRONT)	VP18 (BACK)	VP19 (FRONT)	VP19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02068	S20-Se02069	S20-Se02070	S20-Se02071
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	99	101	100	101
4-Bromofluorobenzene (surr.)	1	%	96	99	97	97
Dibromofluoromethane (surr.)	1	%	102	102	101	101
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			FIELD BLANK (FRONT)	FIELD BLANK (BACK)	EQUIPMENT BLANK (FRONT)	EQUIPMENT BLANK (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se02072	S20-Se02073	S20-Se02074	S20-Se02075
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			FIELD BLANK (FRONT)	FIELD BLANK (BACK)	EQUIPMENT BLANK (FRONT)	EQUIPMENT BLANK (BACK)
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S20-Se02072**	**S20-Se02073**	**S20-Se02074**	**S20-Se02075**
Date Sampled			**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	1.4	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	97	103	99	104
4-Bromofluorobenzene (surr.)	1	%	92	98	95	97
Dibromofluoromethane (surr.)	1	%	96	101	102	103
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Isopropanol	Melbourne	Sep 01, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOCs in Ambient Air by GC/MS	Melbourne	Sep 01, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOC AIR-TRH (Total Recoverable Hydrocarbons)			
Total Recoverable Hydrocarbons	Melbourne	Sep 01, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 01, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 741371
Phone: 02 8245 0300
Fax:

Received: Sep 1, 2020 5:37 PM
Due: Sep 8, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Newcastle Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	VP01 (FRONT)	Aug 29, 2020		Air	S20-Se02040	X	X	X
2	VP01 (BACK)	Aug 29, 2020		Air	S20-Se02041	X	X	X
3	VP02 (FRONT)	Aug 29, 2020		Air	S20-Se02042	X	X	X
4	VP02 (BACK)	Aug 29, 2020		Air	S20-Se02043	X	X	X
5	VP03 (FRONT)	Aug 29, 2020		Air	S20-Se02044	X	X	X
6	VP03 (BACK)	Aug 29, 2020		Air	S20-Se02045	X	X	X
7	VP06	Aug 29, 2020		Air	S20-Se02046	X	X	X

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
	(FRONT)							
8	VP06 (BACK)	Aug 29, 2020		Air	S20-Se02047	X	X	X
9	VP07 (FRONT)	Aug 29, 2020		Air	S20-Se02048	X	X	X
10	VP07 (BACK)	Aug 29, 2020		Air	S20-Se02049	X	X	X
11	VP08 (FRONT)	Aug 29, 2020		Air	S20-Se02050	X	X	X
12	VP08 (BACK)	Aug 29, 2020		Air	S20-Se02051	X	X	X
13	VP09 (FRONT)	Aug 29, 2020		Air	S20-Se02052	X	X	X
14	VP09 (BACK)	Aug 29, 2020		Air	S20-Se02053	X	X	X
15	VP10 (FRONT)	Aug 30, 2020		Air	S20-Se02054	X	X	X
16	VP10 (BACK)	Aug 30, 2020		Air	S20-Se02055	X	X	X

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
17	VP11 (FRONT)	Aug 30, 2020		Air	S20-Se02056	X	X	X
18	VP11 (BACK)	Aug 30, 2020		Air	S20-Se02057	X	X	X
19	VP12 (FRONT)	Aug 30, 2020		Air	S20-Se02058	X	X	X
20	VP12 (BACK)	Aug 30, 2020		Air	S20-Se02059	X	X	X
21	VP13 (FRONT)	Aug 30, 2020		Air	S20-Se02060	X	X	X
22	VP13 (BACK)	Aug 30, 2020		Air	S20-Se02061	X	X	X
23	VP15 (FRONT)	Aug 30, 2020		Air	S20-Se02062	X	X	X
24	VP15 (BACK)	Aug 30, 2020		Air	S20-Se02063	X	X	X
25	VP16 (FRONT)	Aug 30, 2020		Air	S20-Se02064	X	X	X

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
26	VP16 (BACK)	Aug 30, 2020		Air	S20-Se02065	X	X	X
27	VP17 (FRONT)	Aug 30, 2020		Air	S20-Se02066	X	X	X
28	VP17 (BACK)	Aug 30, 2020		Air	S20-Se02067	X	X	X
29	VP18 (FRONT)	Aug 30, 2020		Air	S20-Se02068	X	X	X
30	VP18 (BACK)	Aug 30, 2020		Air	S20-Se02069	X	X	X
31	VP19 (FRONT)	Aug 30, 2020		Air	S20-Se02070	X	X	X
32	VP19 (BACK)	Aug 30, 2020		Air	S20-Se02071	X	X	X
33	FIELD BLANK (FRONT)	Aug 30, 2020		Air	S20-Se02072	X	X	X
34	FIELD BLANK (BACK)	Aug 30, 2020		Air	S20-Se02073	X	X	X

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Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
35	EQUIPMENT BLANK (FRONT)	Aug 30, 2020		Air	S20-Se02074	X	X	X
36	EQUIPMENT BLANK (BACK)	Aug 30, 2020		Air	S20-Se02075	X	X	X
Test Counts						36	36	36

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Isopropanol	Total ug	< 10			10	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	Total ug	< 20			20	Pass	
TRH >C10-C16	Total ug	< 20			20	Pass	
Method Blank							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
Naphthalene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
LCS - % Recovery							
Isopropanol	%	80			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	76			70-130	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	88			70-130	Pass	
1.1-Dichloropropene	%	97			70-130	Pass	
1.1.1-Trichloroethane	%	100			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	88			75-125	Pass	
1.2-Dichloroethane	%	96			70-130	Pass	
Benzene	%	100			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
Naphthalene	%	104			70-130	Pass	
Toluene	%	101			70-130	Pass	
Trichloroethene	%	96			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
1.2-Dichlorobenzene	%	83			70-130	Pass	
1.2.3-Trichlorobenzene	%	89			70-130	Pass	
1.2.4-Trichlorobenzene	%	94			70-130	Pass	
1.4-Dichlorobenzene	%	85			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised By

Ursula Long	Analytical Services Manager
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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1/12

CHAIN OF CUSTODY

24253

JBS&G

PROJECT NO.: S8738	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

*"Other metals"
- manganese
- Aluminium.
- iron
- cyanide (free

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	PFAS	Asbestos	OC/PCB	Other Metals	VOC	TRH	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB58 0-0.1	Soil	30.8.20		J+Bag				x				x			x	
0.3-0.4				J+B + PFAS		x	x	x	x						x	
0.5-0.6				" " "												
1-1.1				J+B												
2-2.1				" "												
3-3.1				" "				x				x	x		x	
JB60 0.0.1				" "		x		x	x						x	
J 0.2-0.3				J+B +PFAS												
JB87 0-0.1				J+B +PFAS												
0.3-0.4				J+B		x		x	x						x	
0.5-0.6				J+B												
1-1.1				J+B				x				x			x	
2-2.1				J+B + PFAS		x	x	x	x						x	
3-3.1				J+B												
JB53 0-0.1																
0.3-0.4						x		x	x		x				x	(1) Yes to OC/PCB
0.5-0.6																
1-1.1																
2.2.1						x		x							x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes... No ..... Intact ... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	5.17
		OF: 03.09.20 2:09pm	COOLER TEMP .... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

(2)/12

CHAIN OF CUSTODY

24254

JBS&G

PROJECT NO.: S8238
PROJECT NAME: PLE
DATE NEEDED BY: STD

LABORATORY BATCH NO.:
SAMPLERS: CK + MN + KT
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ...Cke.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* other metals = cyanide (free), mercuric, aluminium, iron

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	BTEX	PFOS	As, Be, Cr, Ni, Pb	OC, OP, PCB	*other metals	VOC	HM	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB53 3-3.1	Soil	30.8.20		J+B				X							X	
↓ - Free	Bulk Waste material			B				X						X		
JB88 0-0.1	Soil			J+B				X				X	X		X	
0.3-0.4																
0.5-0.6											X					
1-1.1																
2-2.1																
3-3.1								X				X	X			
JB86 0-0.1				J+B												
0.3-0.4				J+D + PFAS		X	X	X	X	X					X	
0.5-0.6				J+D												
1-1.1				J+D												
2-2.1				J+B				X	X		X	X	X			
3-3.1				J+B + PFAS												
JB86A 0.3-0.4				J								X	X			
JB55 0-0.1				J+B		X		X	X						X	
0.7-0.8																
0.5-0.6																
↓ 1-1.1				+ PFAS		X	X	X	X	X					X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Brickell	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 03.09.20 2.09 PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ....., Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

3/12

CHAIN OF CUSTODY

24255

JBS&G

PROJECT NO.: S8238
PROJECT NAME: PLE
DATE NEEDED BY: STD

LABORATORY BATCH NO.:
SAMPLERS: CK + MN + RK
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
*Other Metals = iron, cyanide (free), aluminium, manganese

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos for ID	PFAS	HM	PAH	B7	TRH/BTEX/Naphthalene	*Other metals	VOC	SVOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB55 2-2.1	Soil	30.9.20		J+B													
3-3.1				J				X	X		X						
JB54 0-0.1				J+B		X										X	
0.3-0.4						X		X	X								
0.5-0.6																	
1-1.1				+PFAS			X	X	X								
2-2.1						X				X						X	
3-3.1																	
JB54-frag	Bulk sieved			B		X									X		
JB46 0-0.1	Soil			J+B		X				X	X					X	
0.3-0.4				+ PFAS													
0.5-0.6						X				X	X					X	
1-1.1																	
JB84 0-0.1		29.9.20		J+B		X				X	X	X	X	X		X	
0.3-0.4																	
0.5-0.6				J													
1-1.1																	
1.4-1.5				J				X	X								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 29.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes... ... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 03/09/20 2:04pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes... ... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

742039

4/12

CHAIN OF CUSTODY

24257

JBS&G

PROJECT NO.: S8238
PROJECT NAME: PLE
DATE NEEDED BY: Std

LABORATORY BATCH NO.:
SAMPLERS: CK + MN + KY
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Ckaufmann@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
* other metals = cyanide (free), iron, manganese

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	PFAS	BTEX	H.M	PAH	OCP/PCB	BS	Total Moisture	VOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB19-01	Soil	29.8.20		J+B													
-02																	
-03																	
-04						X	X									X	
-05						X		X									
Dup																X	
JB18 0.01						X	X			X			X				
0.3-0.4																X	
0.5-0.6						X	X										
1.1																X	
1.9-2.0				J													
JB17 0-0.1				J+B		X	X			X			X				
0.3-0.4																X	
0.5-0.6																	
1.1																	
1.9-2.0				J			X	X					X				
JB16 0.01				J+B		X		X	X								
0.3-0.4																X	
0.5-0.6																	

RELINQUISHED BY:

NAME: CK DATE: 29.8.20
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:

NAME: Melissa Birtwell
DATE: 03/09/20 2:09pm
OF:

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

(5)/12

CHAIN OF CUSTODY

24258

JBS&G

PROJECT NO.. S8238
PROJECT NAME: Site PLE
DATE NEEDED BY: STD

LABORATORY BATCH NO.:
SAMPLERS: CK + MW + KY
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3122 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaulfuss@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	BTEX	Asbestos	VOC	*other Metals	PFAS	OCP/PCB	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB16 1-1.1	Soil	2/9/20		J+B												
2-2.1				↓												
3-3.1				J+P(G)		x	x									
JB12 0-0.1				J+B												
0.3-0.4				+P(G)			x	x	x		x	x			x	
0.5-0.6																
1.1-1.2				↓		x	x		x						x	
2-2.1				J												
JB15 0-0.1				J+B			x	x	x			x	x		x	
0.3-0.4							x	x							x	
0.5-0.6				+P(G)												
1-1.1																
2-2.1							x	x							y	
3-3.1				↓												
JB14 0-0.1				J+B		x	x		x						x	
0.7-0.8																
0.5-0.6																
1-1.1																
2-2.1		C		+P(G)												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Bissett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 05/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

CHAIN OF CUSTODY

24259

JBS&G

PROJECT NO.: SSC38	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + MN + KY
DATE NEEDED BY: 5D	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Ckaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	Asbestos	Hi-M	PAH	Pfas	VOC	SVOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB11 0.3-0.4	Soil	29.8.20		J											
JB11 0-0.1				J+B			x	x	x					x	
0.3-0.4															
0.5-0.6															
1-1.1				+ Pfas		x	x			x	x			x	
1.4-1.5				J											
JB17 0-0.1				J+B			x	x	x					x	
0.3-0.4															
0.5-0.6							~~x~~							x	
1-1.1								x	x		x				
1.5-1.6				J											
JB10 0-0.1				J+B		x	x	x	x						
0.2-0.3															
0.5-0.6							x	x	x					~	
1-1.1															
2-2.1				J		x	x				x			x	
2.8-2.9															
JB05 0-0.1				J+D		x					x	x			
0.3-0.4				J+B											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 29.8.20	CONSIGNMENT NOTE NO.	NAME: Melissa Brickett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 03/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

CHAIN OF CUSTODY

24260

JBS&G

PROJECT NO.: S8238	LABORATORY BATCH NO.:
PROJECT NAME: PLF	SAMPLERS: CL + KY + MW
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* Cyanide (free)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H.M	PAH	TRH/BTEX/Naphthalene	Asbestos	VOC	SVOC	PFAS	OCP/PCB	Ammonia	Nitrate	Iron	Cyanide (free)	BaP	B-7	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB05 0.5-0.6	Soil	2/9/20		J+D + Plcj		S			X													
1.1				J														X				
↓ 2.2																						
JB04 0.1				J+B																		
0.2-0.3									X										X		X	
0.5-0.6																						
1.1																						
JB82 0.1				J+D		X	X	X	X												X	
0.3 0.4																						
0.5-0.6																						
JB83 0.1-0.2				J+B + Plcj		X	X	X	X	X	X	X	X	X	X	X					X	
0.3 0.4				J+B																		
0.5 0.6						X	X	X	X												X	
1.1																						
↓ 2.2		↓		↓																		
JB32 0.05-0.35		3/9/20		J		X	X	X	X													
0.4 0.5				plcj						X	X	X							X			
↓ 0.5-0.8		↓		J+B																		
	↓																					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2/9/20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 03/09/20 2:04pm OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

8/12

24261

CHAIN OF CUSTODY

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CL
DATE NEEDED BY: Std	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* other metals = cyanide(free), iron, manganese, aluminium

(8) run PFAS on JB40 1.6-1.7

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	B7	VOC	SVOC	OCP/PCB	PFAS	Moisture	HM	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB40 0.3-0.5	Soil	3.8.20		J+B+PFAS		X	X	X	X	X	X	X				X	
0.9-1																	
1.6-1.7				J+PFAS			X	X	X	X	(X)	X				X	PFAS
1.6-2.0				B		X										X	
2.9-3				J+B													
3.9-4				J													
7-7.1				J			X										
JB24 0-0.1				J+B+PFAS		X	X						XXX			X	
0.4-0.5				J													
1.1-1.1				J+B													
2-2.1				J			X						XXX				
3.4-3.5				J													
5-5.1				J													
JB35 0.05-0.3				J													
0.3-0.5				J													
6.5-6.7				J		*	X	X									
0.5-1.0				B		X										X	
1-1.1				J													
1.2-1.4				J													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Brissett	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 03/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

9/12

CHAIN OF CUSTODY

24262

JBS&G

PROJECT NO.. S8278	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + MN + KY
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* other Metals = cyanide (free), iron, magnesium, aluminium

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	As, Cr, Pb	OCP/PCB	VOC	SVOC	PFOS	* other Metals	HM	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB852-2.2	Soil	30.8.20		J		X		X	X	X		X					
1.6-2.2				B													
2.6-2.9				J													
2.5-2.8				B													
3.4-3.5				J		X											
4.8-5.0		"		J		X											
JB81 0.1-0.2		29.8.20		J+B													
0.5-0.6				J+B + PFAS		X	X	X			X					X	
0.9-1				J, B + PFOS		X	X	X									
1.5-1.6				J, B		X	X	X								X	
2-2.1				J+B + PFOS													
3-3.1				J+B + PFAS		X											
4-4.01				J+B		X										X	
4.6-4.7				J+B													
5.5-5.6				J									X				
JB660-0.1				J+B													
0.5-0.6				J+B		X	X	X								X	
1-1.1				J+B + PFOS													
2-2.1						X	X	X								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes. ... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 03/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

10 / 12

CHAIN OF CUSTODY

24263

JBS&G

PROJECT NO.: SS8238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: Che
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* Other samples for this on another COC sheet

(1) Cyanide (free)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Hg	PAH	Met/BTEX	VOC	SVOC	PFAS	OCP/PCB	Alkalinity	Mg/Ca/Cr	Cyanide (1)	Iron	B/Zn	Asbestos for	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	JB63-3.1	Soil	29/8/20		J+B																	
	4-4.1				J+B		X	X	X				O					X			X	
	5-5.1				J+B																	
	6-6.1				J																	
	7-7.1				J																	
	JB48 01-0.1				J+B		X	X	X	X				X	X	X	X		X		6	
	04-0.5																					
	09-1				J+B+PFAS		X	X											X		X	
	19-2				↓																	
	4-4.1		↓		J																	
*	JB32 4-4.1		30/8/20		J																	
	↓ 5-5.1		↓		J			X														
	RINSE 1	RINSE			2 vial, 1 Amb, 1 Metal, 1 PFAS		X	—	—	—	—	—	—	—	—	—	—	X				
	TS				2 vial													X				
	TB				↓													X				
	Field Blank				no PFAS							X										
*	JB32 09-1.1	SOIL			J		O	X	X	X	X											
	14-1.5				J						X											
	16-1.8		↓		J																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 03/09/20 2:09pm OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

742039

11/12

CHAIN OF CUSTODY

24265

JBS&G

PROJECT NO.: SS278	LABORATORY BATCH NO.:
PROJECT NAME: PLC	SAMPLERS: CK + KY + MN
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JBS2 2627	Soil	30820		J		T			
J3				J		N			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 2.9.20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 03/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... , No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742039

12/12

CHAIN OF CUSTODY

24256

JBS&G

PROJECT NO.: SE738	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CL + MW + RY
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..... @jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

*expensive (fee) / SEND QC Samples to Enviolab with accompanying COC

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PAH	OCP/PCB	Asbestos	VOC	SVOC	PFAS	OCP/PCB	aluminium	manganese	iron	cyanide	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA 20200829-MN01	Soil	29.8.20		J+B+Pfas		x										D			
QC 20200829-MN01																			Enviolab
SED01				J+Pfas		x	x	x		x	x	x		x	x	x		x	
QA 20200829-MN02				J+B		x	x	x	x				x					x	
QC 20200829-MN02																			Enviolab
QA 20200829-MN03				J+B		x	x	x	x	x	x		x	x	x	x		x	
QC 20200829-MN03																			Enviolab
QA JB02-0830		30.8.20				x	x	x	x	x	x	x	x	x	x	x		x	
QC JB02-0830																			Enviolab
QA JB01-0829		29.8.20		J+B+Pfas		x	x	x	x			x						x	
QC JB01-0829																			Enviolab

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CL DATE: 2/9/20	CONSIGNMENT NOTE NO.	NAME: Melissa Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 03/09/20 2:09pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

742039

#AU04_COCNSW

From: Milad Noujaim <mnoujaim@jbsg.com.au>
Sent: Monday, 7 September 2020 9:26 AM
To: #AU04_COCNSW
Cc: Christopher Kauffman; Ursula Long
Subject: RE: PLE 58238 JB17 and unlabelled samples

Follow Up Flag: Follow up
Flag Status: Flagged

Hey Melissa,

Can you please keep the samples labeled on the lid as JB17 and log the ones with unlabeled lid as JB17a.

If there are any issues, please don't hesitate to give me a call.

Regards,

Milad Noujaim | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0401 230 032 | E: mnoujaim@jbsg.com.au | W: www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Environmental Approvals | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Stakeholder and Risk Management

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are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Friday, 4 September 2020 7:20 PM
To: Milad Noujaim <mnoujaim@jbsg.com.au>
Subject: Fwd: PLE 58238 JB17 and unlabelled samples

Hey mate any idea what may be what? I'll look tomorrow and have notes/maps up for you to reference.

No rush I know you're busy with other stuff
Get Outlook for iOS

From: COCNSW@Eurofins.com <COCNSW@Eurofins.com>
Sent: Friday, September 4, 2020 3:36:29 PM
To: Christopher Kauffman <ckauffman@jbsg.com.au>
Cc: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Subject: PLE 58238 JB17 and unlabelled samples

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Good afternoon Chris,

I have attached photos of the unlabelled samples (jar and bag) received as well as the labelled JB17 samples.

As per the SRA we received two sets of JB17, one set is labelled on the lid of the jar and has been logged as per the JB17 on page 4 of the COC. The second set is not labelled on the lid and has been logged as per the JB17 on page 6 of the COC. Can you please confirm if these samples are labelled correctly?

Kind Regards,

Melissa Birkett
Enviro Sample NSW
Sample Receipt NSW

Eurofins | Environment Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone : +61 2 9900 8421

Email : EnviroSampleNSW@Eurofins.com
Website: www.eurofins.com.au/environmental-testing

Click here to report this email as spam.

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 3, 2020 2:05 PM
Eurofins reference	742039

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 5.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

No glass jar received for JB32 0.4-0.5, B7, SVOC and VOC analysis cancelled. No PFAS jar received for QA JB02_0830, PFAS cancelled. No sample received for JB54 3-3.1. JB48 5.5-5.6 (jar) received as extra and logged on hold. Unlabelled bag and jar received as extra logged on hold. QC20200829_MN01 (Jar, bag, PFAS), QC20200829_MN02 (Jar, bag), QC20200829_MN03(Jar, bag), QC JB02_0830(Jar, bag) and QC JB01_0829(Jar, bag, PFAS) forwarded to Envirolab. Asbestos bag not received for JB16 0-0.1 and JB81 1.5-1.6, analysis cancelled.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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Site # 1254 & 14271

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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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NATA # 1261
Site # 23736

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Phone : +61 2 4968 8448

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271	X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217		X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																				X	X						X	
Perth Laboratory - NATA Site # 23736																												
Newcastle Laboratory																												
External Laboratory																												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																								
1	JB58 0-0.1	Aug 30, 2020		Soil	S20-Se07032			X										X							X				
2	JB58 0.3-0.4	Aug 30, 2020		Soil	S20-Se07033			X												X						X			X	
3	JB58 3-3.1	Aug 30, 2020		Soil	S20-Se07034			X									X	X							X				
4	JB60 0-0.1	Aug 30, 2020		Soil	S20-Se07035			X												X					X				
5	JB87 0.3-0.4	Aug 30, 2020		Soil	S20-Se07036			X												X					X				
6	JB87 1-1.1	Aug 30, 2020		Soil	S20-Se07037			X										X							X				
7	JB87 2-2.1	Aug 30, 2020		Soil	S20-Se07038			X												X					X			X	
8	JB53 0.3-0.4	Aug 30, 2020		Soil	S20-Se07039		X	X				X			X						X				X				
9	JB53 2-2.1	Aug 30, 2020		Soil	S20-Se07040			X												X					X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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PO Box 60 Wickham 2293
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New Zealand

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
10	JB53 3-3.1	Aug 30, 2020		Soil	S20-Se07041			X																									
11	JB88 0-0.1	Aug 30, 2020		Soil	S20-Se07042			X										X	X						X								
12	JB88 0.5-0.6	Aug 30, 2020		Soil	S20-Se07043																		X		X								
13	JB88 3-3.1	Aug 30, 2020		Soil	S20-Se07044			X										X	X						X								
14	JB86 0.3-0.4	Aug 30, 2020		Soil	S20-Se07045		X	X				X			X		X				X		X		X			X			X		
15	JB86 2-2.1	Aug 30, 2020		Soil	S20-Se07046			X										X	X			X		X		X							
16	JB86A 0.3-0.4	Aug 30, 2020		Soil	S20-Se07047													X	X							X							
17	JB55 0-0.1	Aug 30, 2020		Soil	S20-Se07048			X														X				X			X				
18	JB55 1-1.1	Aug 30, 2020		Soil	S20-Se07049		X	X				X			X		X					X		X		X			X			X	
19	JB55 3-3.1	Aug 30, 2020		Soil	S20-Se07050													X	X			X				X							
20	JB54 0-0.1	Aug 30, 2020		Soil	S20-Se07051			X																									
21	JB54 0.3-0.4	Aug 30, 2020		Soil	S20-Se07052			X										X	X							X							
22	JB54 1-1.1	Aug 30, 2020		Soil	S20-Se07053													X	X							X						X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
23	JB54 2-2.1	Aug 30, 2020		Soil	S20-Se07054			X																	X			X				
24	JB46 0-0.1	Aug 30, 2020		Soil	S20-Se07055			X														X			X			X				
25	JB46 0.5-0.6	Aug 30, 2020		Soil	S20-Se07056			X														X			X			X				
26	JB84 0-0.1	Aug 29, 2020		Soil	S20-Se07057		X	X				X			X		X					X		X		X	X		X				
27	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se07058													X	X							X							
28	JB19-03	Aug 29, 2020		Soil	S20-Se07059			X																		X			X				
29	JB19-05	Aug 29, 2020		Soil	S20-Se07060			X										X	X							X							
30	JB18 0-0.1	Aug 29, 2020		Soil	S20-Se07061			X														X		X		X			X				
31	JB18 0.5-0.6	Aug 29, 2020		Soil	S20-Se07062			X																		X			X				
32	JB17 0-0.1	Aug 29, 2020		Soil	S20-Se07063		X	X				X			X		X					X				X			X				
33	JB17 1-1.1	Aug 29, 2020		Soil	S20-Se07064		X					X			X		X	X	X							X							
34	JB16 0-0.1	Aug 29, 2020		Soil	S20-Se07065													X	X							X							
35	JB16 3-3.1	Aug 29, 2020		Soil	S20-Se07066													X	X							X							

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
36	JB12 0.3-0.4	Aug 29, 2020		Soil	S20-Se07067			X														X		X		X			X			X	
37	JB12 1.1-1.2	Aug 29, 2020		Soil	S20-Se07068			X										X	X							X							
38	JB15 0-0.1	Aug 29, 2020		Soil	S20-Se07069			X														X		X		X			X				
39	JB15 2-2.1	Aug 29, 2020		Soil	S20-Se07070			X																		X			X				
40	JB14 0-0.1	Aug 29, 2020		Soil	S20-Se07071			X										X	X							X							
41	JB11 0-0.1	Aug 29, 2020		Soil	S20-Se07072			X										X	X							X							
42	JB11 1-1.1	Aug 29, 2020		Soil	S20-Se07073			X																X		X			X			X	
43	JB10 0-0.1	Aug 29, 2020		Soil	S20-Se07074			X																		X			X				
44	JB10 0.5-0.6	Aug 29, 2020		Soil	S20-Se07075			X										X	X							X							
45	JB10 2-2.1	Aug 29, 2020		Soil	S20-Se07076			X																X		X			X				
46	JB05 0-0.1	Aug 29, 2020		Soil	S20-Se07077																			X		X	X		X				
47	JB05 0.5-0.6	Aug 29, 2020		Soil	S20-Se07078			X										X	X							X							
48	JB05 2-2.1	Aug 29, 2020		Soil	S20-Se07079																					X					X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
49	JB04 0.2-0.3	Aug 29, 2020		Soil	S20-Se07080			X																		X			X				
50	JB82 0-0.1	Aug 29, 2020		Soil	S20-Se07081			X																		X			X				
51	JB83 0.1-0.2	Aug 29, 2020		Soil	S20-Se07082		X	X				X			X		X					X		X		X	X		X			X	
52	JB83 0.5-0.6	Aug 29, 2020		Soil	S20-Se07083			X																		X			X				
53	JB32 0.05-0.35	Aug 30, 2020		Soil	S20-Se07084																					X			X				
54	JB32 0.4-0.5	Aug 30, 2020		Soil	S20-Se07085																				X							X	
55	JB32 0.9-1.1	Aug 30, 2020		Soil	S20-Se07086																			X		X	X		X				
56	JB32 5-5.1	Aug 30, 2020		Soil	S20-Se07087																					X				X			
57	JB40 0.3-0.5	Aug 30, 2020		Soil	S20-Se07088		X	X				X			X		X					X		X		X	X		X			X	
58	JB40 1.6-1.7	Aug 30, 2020		Soil	S20-Se07089		X					X			X		X					X		X		X	X		X			X	
59	JB40 1.6-2.0	Aug 30, 2020		Soil	S20-Se07090			X																									
60	JB40 7-7.1	Aug 30, 2020		Soil	S20-Se07091																					X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
61	JB24 0-0.1	Aug 30, 2020		Soil	S20-Se07092			X																	X			X					
62	JB24 2-2.1	Aug 30, 2020		Soil	S20-Se07093																				X			X					
63	JB85 0.5-0.7	Aug 30, 2020		Soil	S20-Se07094																			X	X			X					
64	JB85 0.5-1.0	Aug 30, 2020		Soil	S20-Se07095			X																									
65	JB85 2-2.2	Aug 30, 2020		Soil	S20-Se07096		X					X			X		X					X		X		X	X		X					
66	JB85 4.8-5.0	Aug 30, 2020		Soil	S20-Se07097																				X			X					
67	JB81 0.5-0.6	Aug 29, 2020		Soil	S20-Se07098			X														X			X			X				X	
68	JB81 0.9-1	Aug 29, 2020		Soil	S20-Se07099			X														X			X			X					
69	JB81 1.5-1.6	Aug 29, 2020		Soil	S20-Se07100																	X			X			X					
70	JB81 4-4.1	Aug 29, 2020		Soil	S20-Se07101																				X			X					
71	JB81 5.5-5.6	Aug 29, 2020		Soil	S20-Se07102														X						X								
72	JB66 0.5-0.6	Aug 29, 2020		Soil	S20-Se07103			X														X			X			X					
73	JB66 2-2.1	Aug 29, 2020		Soil	S20-Se07104			X														X			X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
74	JB66 4-4.1	Aug 29, 2020		Soil	S20-Se07105			X														X			X			X				
75	JB48 0.1-0.2	Aug 29, 2020		Soil	S20-Se07106		X	X				X			X		X						X		X			X				
76	JB48 0.9-1	Aug 29, 2020		Soil	S20-Se07107			X										X	X						X							
77	JB53_FRAG	Aug 30, 2020		Building Materials	S20-Se07108				X																								
78	JB54_FRAG	Aug 30, 2020		Building Materials	S20-Se07109				X																								
79	RIN01	Aug 30, 2020		Water	S20-Se07110	X					X			X		X					X		X				X	X				X	
80	TS	Aug 30, 2020		Water	S20-Se07111																												X
81	TB	Aug 30, 2020		Water	S20-Se07112															X													
82	FIELD BLANK	Aug 30, 2020		Water	S20-Se07113																											X	
83	SED01	Aug 29, 2020		Soil	S20-Se07114		X					X			X		X							X		X	X		X			X	
84	QA20200829_MN01	Aug 29, 2020		Soil	S20-Se07115		X	X				X			X		X					X		X		X	X		X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
85	QA20200829_ MN02	Aug 29, 2020		Soil	S20-Se07116			X														X				X			X				
86	QA20200829_ MN03	Aug 29, 2020		Soil	S20-Se07117		X	X				X			X		X					X		X		X	X		X				
87	QA JB02_0830	Aug 30, 2020		Soil	S20-Se07118		X	X				X			X		X					X		X		X	X		X				
88	QA JB01_0829	Aug 29, 2020		Soil	S20-Se07119			X														X				X			X				
89	JB58 0.5-0.6	Aug 30, 2020		Soil	S20-Se07120								X																				
90	JB58 1-1.1	Aug 30, 2020		Soil	S20-Se07121								X																				
91	JB58 2-2.1	Aug 30, 2020		Soil	S20-Se07122								X																				
92	JB60 0.2-0.3	Aug 30, 2020		Soil	S20-Se07123								X																				
93	JB87 0-0.1	Aug 30, 2020		Soil	S20-Se07124								X																				
94	JB87 0.5-0.6	Aug 30, 2020		Soil	S20-Se07125								X																				

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Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
95	JB87 3-3.1	Aug 30, 2020		Soil	S20-Se07126								X																				
96	JB53 0-0.1	Aug 30, 2020		Soil	S20-Se07127								X																				
97	JB53 0.5-0.6	Aug 30, 2020		Soil	S20-Se07128								X																				
98	JB53 1-1.1	Aug 30, 2020		Soil	S20-Se07129								X																				
99	JB88 0.3-0.4	Aug 30, 2020		Soil	S20-Se07130								X																				
100	JB88 1-1.1	Aug 30, 2020		Soil	S20-Se07131								X																				
101	JB88 2-2.1	Aug 30, 2020		Soil	S20-Se07132								X																				
102	JB86 0-0.1	Aug 30, 2020		Soil	S20-Se07133								X																				
103	JB86 0.5-0.6	Aug 30, 2020		Soil	S20-Se07134								X																				
104	JB86 1-1.1	Aug 30, 2020		Soil	S20-Se07135								X																				
105	JB86 3-3.1	Aug 30, 2020		Soil	S20-Se07136								X																				
106	JB55 0.3-0.4	Aug 30, 2020		Soil	S20-Se07137								X																				
107	JB55 0.5-0.6	Aug 30, 2020		Soil	S20-Se07138								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
108	JB55 2-2.1	Aug 30, 2020		Soil	S20-Se07139								X																				
109	JB54 0.5-0.6	Aug 30, 2020		Soil	S20-Se07140								X																				
110	JB54 3-3.1	Aug 30, 2020		Soil	S20-Se07141					X																							
111	JB46 0.3-0.4	Aug 30, 2020		Soil	S20-Se07142								X																				
112	JB46 1-1.1	Aug 30, 2020		Soil	S20-Se07143								X																				
113	JB84 0.3-0.4	Aug 29, 2020		Soil	S20-Se07144								X																				
114	JB84 0.5-0.6	Aug 29, 2020		Soil	S20-Se07145								X																				
115	JB84 1-1.1	Aug 29, 2020		Soil	S20-Se07146								X																				
116	JB19-01	Aug 29, 2020		Soil	S20-Se07147								X																				
117	JB19-02	Aug 29, 2020		Soil	S20-Se07148								X																				
118	JB19-04	Aug 29, 2020		Soil	S20-Se07149								X																				
119	JB18 0.3-0.4	Aug 29, 2020		Soil	S20-Se07150								X																				
120	JB18 1-1.1	Aug 29, 2020		Soil	S20-Se07151								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
121	JB18 1.9-2.0	Aug 29, 2020		Soil	S20-Se07152								X																				
122	JB17 0.3-0.4	Aug 29, 2020		Soil	S20-Se07153								X																				
123	JB17 0.5-0.6	Aug 29, 2020		Soil	S20-Se07154								X																				
124	JB17 1.9-2.0	Aug 29, 2020		Soil	S20-Se07155								X																				
125	JB16 0.3-0.4	Aug 29, 2020		Soil	S20-Se07156								X																				
126	JB16 0.5-0.6	Aug 29, 2020		Soil	S20-Se07157								X																				
127	JB16 1-1.1	Aug 29, 2020		Soil	S20-Se07158								X																				
128	JB16 2-2.1	Aug 29, 2020		Soil	S20-Se07159								X																				
129	JB12 0-0.1	Aug 29, 2020		Soil	S20-Se07160								X																				
130	JB12 0.5-0.6	Aug 29, 2020		Soil	S20-Se07161								X																				
131	JB12 2-2.1	Aug 29, 2020		Soil	S20-Se07162								X																				
132	JB15 0.3-0.4	Aug 29, 2020		Soil	S20-Se07163								X																				
133	JB15 0.5-0.6	Aug 29, 2020		Soil	S20-Se07164								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
134	JB15 1-1.1	Aug 29, 2020		Soil	S20-Se07165								X																				
135	JB15 3-3.1	Aug 29, 2020		Soil	S20-Se07166								X																				
136	JB14 0.3-0.4	Aug 29, 2020		Soil	S20-Se07167								X																				
137	JB14 0.5-0.6	Aug 29, 2020		Soil	S20-Se07168								X																				
138	JB14 1-1.1	Aug 29, 2020		Soil	S20-Se07169								X																				
139	JB14 2-2.1	Aug 29, 2020		Soil	S20-Se07170								X																				
140	JB14 3-3.1	Aug 29, 2020		Soil	S20-Se07171								X																				
141	JB11 0.3-0.4	Aug 29, 2020		Soil	S20-Se07172								X																				
142	JB11 0.5-0.6	Aug 29, 2020		Soil	S20-Se07173								X																				
143	JB11 1.4-1.5	Aug 29, 2020		Soil	S20-Se07174								X																				
144	JB10 0.2-0.3	Aug 29, 2020		Soil	S20-Se07175								X																				
145	JB10 1-1.1	Aug 29, 2020		Soil	S20-Se07176								X																				
146	JB10 2.8-2.9	Aug 29, 2020		Soil	S20-Se07177								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
147	JB05 0.3-0.4	Aug 29, 2020		Soil	S20-Se07178								X																				
148	JB05 1-1.1	Aug 29, 2020		Soil	S20-Se07179								X																				
149	JB04 0-0.1	Aug 29, 2020		Soil	S20-Se07180								X																				
150	JB04 0.5-0.6	Aug 29, 2020		Soil	S20-Se07181								X																				
151	JB04 1-1.1	Aug 29, 2020		Soil	S20-Se07182								X																				
152	JB82 0.3-0.4	Aug 29, 2020		Soil	S20-Se07183								X																				
153	JB82 0.5-0.6	Aug 29, 2020		Soil	S20-Se07184								X																				
154	JB83 0.3-0.4	Aug 29, 2020		Soil	S20-Se07185								X																				
155	JB83 1-1.1	Aug 29, 2020		Soil	S20-Se07186								X																				
156	JB83 2-2.1	Aug 29, 2020		Soil	S20-Se07187								X																				
157	JB32 0.5-0.8	Aug 30, 2020		Soil	S20-Se07188								X																				
158	JB32 1.4-1.5	Aug 30, 2020		Soil	S20-Se07189								X																				
159	JB32 1.6-1.8	Aug 30, 2020		Soil	S20-Se07190								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
160	JB32 2.6-2.7	Aug 30, 2020		Soil	S20-Se07191								X																				
161	JB32 3-3.1	Aug 30, 2020		Soil	S20-Se07192								X																				
162	JB32 4-4.1	Aug 30, 2020		Soil	S20-Se07193								X																				
163	JB40 0.9-1	Aug 30, 2020		Soil	S20-Se07194								X																				
164	JB40 2.8-3	Aug 30, 2020		Soil	S20-Se07195								X																				
165	JB40 3.9-4	Aug 30, 2020		Soil	S20-Se07196								X																				
166	JB24 0.4-0.5	Aug 30, 2020		Soil	S20-Se07197								X																				
167	JB24 1-1.1	Aug 30, 2020		Soil	S20-Se07198								X																				
168	JB24 3.4-3.5	Aug 30, 2020		Soil	S20-Se07199								X																				
169	JB24 5-5.1	Aug 30, 2020		Soil	S20-Se07200								X																				
170	JB85 0.05-0.3	Aug 30, 2020		Soil	S20-Se07201								X																				
171	JB85 0.3-0.5	Aug 30, 2020		Soil	S20-Se07202								X																				
172	JB85 1-1.1	Aug 30, 2020		Soil	S20-Se07203								X																				

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Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
173	JB85 1.2-1.4	Aug 30, 2020		Soil	S20-Se07204								X																				
174	JB85 1.6-2.2	Aug 30, 2020		Soil	S20-Se07205								X																				
175	JB85 2.6-2.8	Aug 30, 2020		Soil	S20-Se07206								X																				
176	JB85 2.5-2.8	Aug 30, 2020		Soil	S20-Se07207								X																				
177	JB85 3.4-3.5	Aug 30, 2020		Soil	S20-Se07208								X																				
178	JB81 0.1-0.2	Aug 29, 2020		Soil	S20-Se07209								X																				
179	JB81 2-2.1	Aug 29, 2020		Soil	S20-Se07210								X																				
180	JB81 3-3.1	Aug 29, 2020		Soil	S20-Se07211								X																				
181	JB81 4.6-4.7	Aug 29, 2020		Soil	S20-Se07212								X																				
182	JB66 0-0.1	Aug 29, 2020		Soil	S20-Se07213								X																				
183	JB66 1-1.1	Aug 29, 2020		Soil	S20-Se07214								X																				
184	JB66 3-3.1	Aug 29, 2020		Soil	S20-Se07215								X																				
185	JB66 5-5.1	Aug 29, 2020		Soil	S20-Se07216								X																				

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
186	JB66 6-6.1	Aug 29, 2020		Soil	S20-Se07217								X																				
187	JB66 7-7.1	Aug 29, 2020		Soil	S20-Se07218								X																				
188	JB48 0.4-0.5	Aug 29, 2020		Soil	S20-Se07219								X																				
189	JB48 1.9-2	Aug 29, 2020		Soil	S20-Se07220								X																				
190	JB48 4-4.1	Aug 29, 2020		Soil	S20-Se07221								X																				
191	JB17a 0-0.1	Aug 30, 2020		Soil	S20-Se07689			X										X	X							X							
192	JB17a 1-1.1	Aug 30, 2020		Soil	S20-Se07690													X	X					X		X							
193	JB17a 0.3-0.4	Aug 30, 2020		Soil	S20-Se07691								X																				
194	JB17a 0.5-0.6	Aug 30, 2020		Soil	S20-Se07692								X																				
195	JB17a 1.5-1.6	Aug 30, 2020		Soil	S20-Se07693								X																				
196	JB48 5.5-5.6	Aug 29, 2020		Soil	S20-Se08028								X																				
197	UNLABELLED JAR	Aug 29, 2020		Soil	S20-Se08029								X																				

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Phone: 02 8245 0300
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Received: Sep 3, 2020 2:05 PM
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Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
198	UNLABELLED BAG	Aug 29, 2020		Soil	S20-Se08030								X																				
Test Counts						16	16	59	2	1	16	16	107	16	16	16	16	21	24	1	33	33	25	25	80	80	12	53	53	1	1	16	2

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	742039-AID
Project Name	PLE
Project ID	58238
Received Date	Sep 03, 2020
Date Reported	Sep 14, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PLE
Project ID 58238
Date Sampled Aug 29, 2020 to Aug 30, 2020
Report 742039-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB58 0-0.1	20-Se07032	Aug 30, 2020	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB58 0.3-0.4	20-Se07033	Aug 30, 2020	Approximate Sample 277g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB58 3-3.1	20-Se07034	Aug 30, 2020	Approximate Sample 402g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB60 0-0.1	20-Se07035	Aug 30, 2020	Approximate Sample 668g Sample consisted of: Brown coarse-grained soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB87 0.3-0.4	20-Se07036	Aug 30, 2020	Approximate Sample 772g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB87 1-1.1	20-Se07037	Aug 30, 2020	Approximate Sample 630g Sample consisted of: Brown coarse-grained soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB87 2-2.1	20-Se07038	Aug 30, 2020	Approximate Sample 744g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB53 0.3-0.4	20-Se07039	Aug 30, 2020	Approximate Sample 600g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB53 2-2.1	20-Se07040	Aug 30, 2020	Approximate Sample 587g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB53 3-3.1	20-Se07041	Aug 30, 2020	Approximate Sample 519g Sample consisted of: Brown coarse-grained soil, glass, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB88 0-0.1	20-Se07042	Aug 30, 2020	Approximate Sample 603g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB88 3-3.1	20-Se07044	Aug 30, 2020	Approximate Sample 466g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB86 0.3-0.4	20-Se07045	Aug 30, 2020	Approximate Sample 556g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB86 2-2.1	20-Se07046	Aug 30, 2020	Approximate Sample 543g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB55 0-0.1	20-Se07048	Aug 30, 2020	Approximate Sample 662g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB55 1-1.1	20-Se07049	Aug 30, 2020	Approximate Sample 680g Sample consisted of: Brown coarse-grained soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB54 0-0.1	20-Se07051	Aug 30, 2020	Approximate Sample 581g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB54 0.3-0.4	20-Se07052	Aug 30, 2020	Approximate Sample 601g Sample consisted of: Brown coarse-grained soil, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB54 2-2.1	20-Se07054	Aug 30, 2020	Approximate Sample 632g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB46 0-0.1	20-Se07055	Aug 30, 2020	Approximate Sample 607g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB46 0.5-0.6	20-Se07056	Aug 30, 2020	Approximate Sample 641g Sample consisted of: Brown coarse-grained soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB84 0-0.1	20-Se07057	Aug 29, 2020	Approximate Sample 871g Sample consisted of: Brown coarse-grained soil, glass, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB19-03	20-Se07059	Aug 29, 2020	Approximate Sample 655g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB19-05	20-Se07060	Aug 29, 2020	Approximate Sample 677g Sample consisted of: Brown coarse-grained soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB18 0-0.1	20-Se07061	Aug 29, 2020	Approximate Sample 508g Sample consisted of: Brown coarse-grained soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB18 0.5-0.6	20-Se07062	Aug 29, 2020	Approximate Sample 418g Sample consisted of: Brown coarse-grained soil, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB17 0-0.1	20-Se07063	Aug 29, 2020	Approximate Sample 531g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB12 0.3-0.4	20-Se07067	Aug 29, 2020	Approximate Sample 506g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB12 1.1-1.2	20-Se07068	Aug 29, 2020	Approximate Sample 554g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB15 0-0.1	20-Se07069	Aug 29, 2020	Approximate Sample 583g Sample consisted of: Brown coarse-grained soil, glass, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB15 2-2.1	20-Se07070	Aug 29, 2020	Approximate Sample 729g Sample consisted of: Brown coarse-grained soil, glass, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14 0-0.1	20-Se07071	Aug 29, 2020	Approximate Sample 831g Sample consisted of: Brown coarse-grained soil, brick, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB11 0-0.1	20-Se07072	Aug 29, 2020	Approximate Sample 688g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB11 1-1.1	20-Se07073	Aug 29, 2020	Approximate Sample 867g Sample consisted of: Brown coarse-grained soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB10 0-0.1	20-Se07074	Aug 29, 2020	Approximate Sample 639g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB10 0.5-0.6	20-Se07075	Aug 29, 2020	Approximate Sample 718g Sample consisted of: Brown coarse-grained soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB10 2-2.1	20-Se07076	Aug 29, 2020	Approximate Sample 893g Sample consisted of: Brown coarse-grained soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB05 0.5-0.6	20-Se07078	Aug 29, 2020	Approximate Sample 808g Sample consisted of: Brown coarse-grained soil, brick, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB04 0.2-0.3	20-Se07080	Aug 29, 2020	Approximate Sample 632g Sample consisted of: Brown coarse-grained soil, brick, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB82 0-0.1	20-Se07081	Aug 29, 2020	Approximate Sample 703g Sample consisted of: Brown coarse-grained soil, plaster, brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB83 0.1-0.2	20-Se07082	Aug 29, 2020	Approximate Sample 680g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB83 0.5-0.6	20-Se07083	Aug 29, 2020	Approximate Sample 713g Sample consisted of: Brown coarse-grained soil, glass, cement, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB40 0.3-0.5	20-Se07088	Aug 30, 2020	Approximate Sample 414g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB40 1.6-2.0	20-Se07090	Aug 30, 2020	Approximate Sample 491g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB24 0-0.1	20-Se07092	Aug 30, 2020	Approximate Sample 674g Sample consisted of: Brown coarse-grained soil, cement, plaster, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB85 0.5-1.0	20-Se07095	Aug 30, 2020	Approximate Sample 395g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB81 0.5-0.6	20-Se07098	Aug 29, 2020	Approximate Sample 512g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB81 0.9-1	20-Se07099	Aug 29, 2020	Approximate Sample 367g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB66 0.5-0.6	20-Se07103	Aug 29, 2020	Approximate Sample 403g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB66 2-2.1	20-Se07104	Aug 29, 2020	Approximate Sample 431g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB66 4-4.1	20-Se07105	Aug 29, 2020	Approximate Sample 373g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB48 0.1-0.2	20-Se07106	Aug 29, 2020	Approximate Sample 671g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB48 0.9-1	20-Se07107	Aug 29, 2020	Approximate Sample 492g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB53_FRAG	20-Se07108	Aug 30, 2020	Approximate Sample 176g / 150x85x6mm Sample consisted of: Grey compressed fibre cement material	Chrysotile, amosite and crocidolite asbestos detected.
JB54_FRAG	20-Se07109	Aug 30, 2020	Approximate Sample 13g / 45x40x5mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
QA20200829_MN01	20-Se07115	Aug 29, 2020	Approximate Sample 777g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA20200829_MN02	20-Se07116	Aug 29, 2020	Approximate Sample 770g Sample consisted of: Brown coarse-grained soil, brick, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA20200829_MN03	20-Se07117	Aug 29, 2020	Approximate Sample 817g Sample consisted of: Brown coarse-grained soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA JB02_0830	20-Se07118	Aug 30, 2020	Approximate Sample 419g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA JB01_0829	20-Se07119	Aug 29, 2020	Approximate Sample 368g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB17a 0-0.1	20-Se07689	Aug 30, 2020	Approximate Sample 573g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 04, 2020	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 04, 2020	Indefinite

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271	X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217		X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																				X	X						X	
Perth Laboratory - NATA Site # 23736																												
Newcastle Laboratory																												
External Laboratory																												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																								
1	JB58 0-0.1	Aug 30, 2020		Soil	S20-Se07032			X											X					X					
2	JB58 0.3-0.4	Aug 30, 2020		Soil	S20-Se07033			X												X					X			X		
3	JB58 3-3.1	Aug 30, 2020		Soil	S20-Se07034			X										X	X					X						
4	JB60 0-0.1	Aug 30, 2020		Soil	S20-Se07035			X												X				X			X			
5	JB87 0.3-0.4	Aug 30, 2020		Soil	S20-Se07036			X												X				X			X			
6	JB87 1-1.1	Aug 30, 2020		Soil	S20-Se07037			X											X					X						
7	JB87 2-2.1	Aug 30, 2020		Soil	S20-Se07038			X												X				X			X		X	
8	JB53 0.3-0.4	Aug 30, 2020		Soil	S20-Se07039		X	X				X			X		X			X		X		X			X			
9	JB53 2-2.1	Aug 30, 2020		Soil	S20-Se07040			X																X			X			

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
10	JB53 3-3.1	Aug 30, 2020		Soil	S20-Se07041			X																									
11	JB88 0-0.1	Aug 30, 2020		Soil	S20-Se07042			X										X	X						X								
12	JB88 0.5-0.6	Aug 30, 2020		Soil	S20-Se07043																			X		X								
13	JB88 3-3.1	Aug 30, 2020		Soil	S20-Se07044			X										X	X							X								
14	JB86 0.3-0.4	Aug 30, 2020		Soil	S20-Se07045		X	X				X			X		X				X		X		X			X				X	
15	JB86 2-2.1	Aug 30, 2020		Soil	S20-Se07046			X										X	X			X		X		X								
16	JB86A 0.3-0.4	Aug 30, 2020		Soil	S20-Se07047													X	X							X								
17	JB55 0-0.1	Aug 30, 2020		Soil	S20-Se07048			X														X				X			X				
18	JB55 1-1.1	Aug 30, 2020		Soil	S20-Se07049		X	X				X			X		X					X		X		X			X			X		
19	JB55 3-3.1	Aug 30, 2020		Soil	S20-Se07050													X	X			X				X								
20	JB54 0-0.1	Aug 30, 2020		Soil	S20-Se07051			X																										
21	JB54 0.3-0.4	Aug 30, 2020		Soil	S20-Se07052			X										X	X							X								
22	JB54 1-1.1	Aug 30, 2020		Soil	S20-Se07053													X	X							X							X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X		X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
23	JB54 2-2.1	Aug 30, 2020		Soil	S20-Se07054			X																	X			X				
24	JB46 0-0.1	Aug 30, 2020		Soil	S20-Se07055			X														X			X			X				
25	JB46 0.5-0.6	Aug 30, 2020		Soil	S20-Se07056			X														X			X			X				
26	JB84 0-0.1	Aug 29, 2020		Soil	S20-Se07057		X	X				X			X		X					X		X		X	X		X				
27	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se07058													X	X							X							
28	JB19-03	Aug 29, 2020		Soil	S20-Se07059			X																	X			X				
29	JB19-05	Aug 29, 2020		Soil	S20-Se07060			X										X	X						X							
30	JB18 0-0.1	Aug 29, 2020		Soil	S20-Se07061			X														X		X	X			X				
31	JB18 0.5-0.6	Aug 29, 2020		Soil	S20-Se07062			X																	X			X				
32	JB17 0-0.1	Aug 29, 2020		Soil	S20-Se07063		X	X				X			X		X					X			X			X				
33	JB17 1-1.1	Aug 29, 2020		Soil	S20-Se07064		X					X			X		X	X	X						X							
34	JB16 0-0.1	Aug 29, 2020		Soil	S20-Se07065													X	X						X							
35	JB16 3-3.1	Aug 29, 2020		Soil	S20-Se07066													X	X						X							

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
36	JB12 0.3-0.4	Aug 29, 2020		Soil	S20-Se07067			X														X		X		X			X			X	
37	JB12 1.1-1.2	Aug 29, 2020		Soil	S20-Se07068			X										X	X							X							
38	JB15 0-0.1	Aug 29, 2020		Soil	S20-Se07069			X														X		X		X			X				
39	JB15 2-2.1	Aug 29, 2020		Soil	S20-Se07070			X																		X			X				
40	JB14 0-0.1	Aug 29, 2020		Soil	S20-Se07071			X										X	X							X							
41	JB11 0-0.1	Aug 29, 2020		Soil	S20-Se07072			X										X	X							X							
42	JB11 1-1.1	Aug 29, 2020		Soil	S20-Se07073			X																X		X			X			X	
43	JB10 0-0.1	Aug 29, 2020		Soil	S20-Se07074			X																		X			X				
44	JB10 0.5-0.6	Aug 29, 2020		Soil	S20-Se07075			X										X	X							X							
45	JB10 2-2.1	Aug 29, 2020		Soil	S20-Se07076			X																X		X			X				
46	JB05 0-0.1	Aug 29, 2020		Soil	S20-Se07077																			X		X	X		X				
47	JB05 0.5-0.6	Aug 29, 2020		Soil	S20-Se07078			X										X	X							X							
48	JB05 2-2.1	Aug 29, 2020		Soil	S20-Se07079																					X					X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
49	JB04 0.2-0.3	Aug 29, 2020		Soil	S20-Se07080			X																		X			X				
50	JB82 0-0.1	Aug 29, 2020		Soil	S20-Se07081			X																		X			X				
51	JB83 0.1-0.2	Aug 29, 2020		Soil	S20-Se07082		X	X				X			X		X					X		X		X	X		X			X	
52	JB83 0.5-0.6	Aug 29, 2020		Soil	S20-Se07083			X																		X			X				
53	JB32 0.05-0.35	Aug 30, 2020		Soil	S20-Se07084																					X			X				
54	JB32 0.4-0.5	Aug 30, 2020		Soil	S20-Se07085																				X							X	
55	JB32 0.9-1.1	Aug 30, 2020		Soil	S20-Se07086																			X		X	X		X				
56	JB32 5-5.1	Aug 30, 2020		Soil	S20-Se07087																					X				X			
57	JB40 0.3-0.5	Aug 30, 2020		Soil	S20-Se07088		X	X				X			X		X					X		X		X	X		X			X	
58	JB40 1.6-1.7	Aug 30, 2020		Soil	S20-Se07089		X					X			X		X					X		X		X	X		X			X	
59	JB40 1.6-2.0	Aug 30, 2020		Soil	S20-Se07090			X																									
60	JB40 7-7.1	Aug 30, 2020		Soil	S20-Se07091																					X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
61	JB24 0-0.1	Aug 30, 2020		Soil	S20-Se07092			X																	X			X				
62	JB24 2-2.1	Aug 30, 2020		Soil	S20-Se07093																				X			X				
63	JB85 0.5-0.7	Aug 30, 2020		Soil	S20-Se07094																			X		X			X				
64	JB85 0.5-1.0	Aug 30, 2020		Soil	S20-Se07095			X																									
65	JB85 2-2.2	Aug 30, 2020		Soil	S20-Se07096		X					X			X		X					X		X		X	X		X				
66	JB85 4.8-5.0	Aug 30, 2020		Soil	S20-Se07097																				X			X				
67	JB81 0.5-0.6	Aug 29, 2020		Soil	S20-Se07098			X														X			X			X			X	
68	JB81 0.9-1	Aug 29, 2020		Soil	S20-Se07099			X														X			X			X				
69	JB81 1.5-1.6	Aug 29, 2020		Soil	S20-Se07100																	X			X			X				
70	JB81 4-4.1	Aug 29, 2020		Soil	S20-Se07101																				X			X				
71	JB81 5.5-5.6	Aug 29, 2020		Soil	S20-Se07102														X						X							
72	JB66 0.5-0.6	Aug 29, 2020		Soil	S20-Se07103			X														X			X			X				
73	JB66 2-2.1	Aug 29, 2020		Soil	S20-Se07104			X														X			X			X				

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
74	JB66 4-4.1	Aug 29, 2020		Soil	S20-Se07105			X														X			X			X				
75	JB48 0.1-0.2	Aug 29, 2020		Soil	S20-Se07106		X	X				X			X		X						X		X			X				
76	JB48 0.9-1	Aug 29, 2020		Soil	S20-Se07107			X										X	X						X							
77	JB53_FRAG	Aug 30, 2020		Building Materials	S20-Se07108				X																								
78	JB54_FRAG	Aug 30, 2020		Building Materials	S20-Se07109				X																								
79	RIN01	Aug 30, 2020		Water	S20-Se07110	X					X			X		X					X		X				X	X				X	
80	TS	Aug 30, 2020		Water	S20-Se07111																												X
81	TB	Aug 30, 2020		Water	S20-Se07112															X													
82	FIELD BLANK	Aug 30, 2020		Water	S20-Se07113																											X	
83	SED01	Aug 29, 2020		Soil	S20-Se07114		X					X			X		X							X		X	X		X			X	
84	QA20200829_MN01	Aug 29, 2020		Soil	S20-Se07115		X	X				X			X		X					X		X		X	X		X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
85	QA20200829_MN02	Aug 29, 2020		Soil	S20-Se07116			X														X				X			X				
86	QA20200829_MN03	Aug 29, 2020		Soil	S20-Se07117		X	X				X			X		X					X		X		X	X		X				
87	QA JB02_0830	Aug 30, 2020		Soil	S20-Se07118		X	X				X			X		X					X		X		X	X		X				
88	QA JB01_0829	Aug 29, 2020		Soil	S20-Se07119			X														X				X			X				
89	JB58 0.5-0.6	Aug 30, 2020		Soil	S20-Se07120								X																				
90	JB58 1-1.1	Aug 30, 2020		Soil	S20-Se07121								X																				
91	JB58 2-2.1	Aug 30, 2020		Soil	S20-Se07122								X																				
92	JB60 0.2-0.3	Aug 30, 2020		Soil	S20-Se07123								X																				
93	JB87 0-0.1	Aug 30, 2020		Soil	S20-Se07124								X																				
94	JB87 0.5-0.6	Aug 30, 2020		Soil	S20-Se07125								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
95	JB87 3-3.1	Aug 30, 2020		Soil	S20-Se07126								X																				
96	JB53 0-0.1	Aug 30, 2020		Soil	S20-Se07127								X																				
97	JB53 0.5-0.6	Aug 30, 2020		Soil	S20-Se07128								X																				
98	JB53 1-1.1	Aug 30, 2020		Soil	S20-Se07129								X																				
99	JB88 0.3-0.4	Aug 30, 2020		Soil	S20-Se07130								X																				
100	JB88 1-1.1	Aug 30, 2020		Soil	S20-Se07131								X																				
101	JB88 2-2.1	Aug 30, 2020		Soil	S20-Se07132								X																				
102	JB86 0-0.1	Aug 30, 2020		Soil	S20-Se07133								X																				
103	JB86 0.5-0.6	Aug 30, 2020		Soil	S20-Se07134								X																				
104	JB86 1-1.1	Aug 30, 2020		Soil	S20-Se07135								X																				
105	JB86 3-3.1	Aug 30, 2020		Soil	S20-Se07136								X																				
106	JB55 0.3-0.4	Aug 30, 2020		Soil	S20-Se07137								X																				
107	JB55 0.5-0.6	Aug 30, 2020		Soil	S20-Se07138								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
108	JB55 2-2.1	Aug 30, 2020		Soil	S20-Se07139								X																				
109	JB54 0.5-0.6	Aug 30, 2020		Soil	S20-Se07140								X																				
110	JB54 3-3.1	Aug 30, 2020		Soil	S20-Se07141					X																							
111	JB46 0.3-0.4	Aug 30, 2020		Soil	S20-Se07142								X																				
112	JB46 1-1.1	Aug 30, 2020		Soil	S20-Se07143								X																				
113	JB84 0.3-0.4	Aug 29, 2020		Soil	S20-Se07144								X																				
114	JB84 0.5-0.6	Aug 29, 2020		Soil	S20-Se07145								X																				
115	JB84 1-1.1	Aug 29, 2020		Soil	S20-Se07146								X																				
116	JB19-01	Aug 29, 2020		Soil	S20-Se07147								X																				
117	JB19-02	Aug 29, 2020		Soil	S20-Se07148								X																				
118	JB19-04	Aug 29, 2020		Soil	S20-Se07149								X																				
119	JB18 0.3-0.4	Aug 29, 2020		Soil	S20-Se07150								X																				
120	JB18 1-1.1	Aug 29, 2020		Soil	S20-Se07151								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
121	JB18 1.9-2.0	Aug 29, 2020		Soil	S20-Se07152								X																				
122	JB17 0.3-0.4	Aug 29, 2020		Soil	S20-Se07153								X																				
123	JB17 0.5-0.6	Aug 29, 2020		Soil	S20-Se07154								X																				
124	JB17 1.9-2.0	Aug 29, 2020		Soil	S20-Se07155								X																				
125	JB16 0.3-0.4	Aug 29, 2020		Soil	S20-Se07156								X																				
126	JB16 0.5-0.6	Aug 29, 2020		Soil	S20-Se07157								X																				
127	JB16 1-1.1	Aug 29, 2020		Soil	S20-Se07158								X																				
128	JB16 2-2.1	Aug 29, 2020		Soil	S20-Se07159								X																				
129	JB12 0-0.1	Aug 29, 2020		Soil	S20-Se07160								X																				
130	JB12 0.5-0.6	Aug 29, 2020		Soil	S20-Se07161								X																				
131	JB12 2-2.1	Aug 29, 2020		Soil	S20-Se07162								X																				
132	JB15 0.3-0.4	Aug 29, 2020		Soil	S20-Se07163								X																				
133	JB15 0.5-0.6	Aug 29, 2020		Soil	S20-Se07164								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
134	JB15 1-1.1	Aug 29, 2020		Soil	S20-Se07165								X																				
135	JB15 3-3.1	Aug 29, 2020		Soil	S20-Se07166								X																				
136	JB14 0.3-0.4	Aug 29, 2020		Soil	S20-Se07167								X																				
137	JB14 0.5-0.6	Aug 29, 2020		Soil	S20-Se07168								X																				
138	JB14 1-1.1	Aug 29, 2020		Soil	S20-Se07169								X																				
139	JB14 2-2.1	Aug 29, 2020		Soil	S20-Se07170								X																				
140	JB14 3-3.1	Aug 29, 2020		Soil	S20-Se07171								X																				
141	JB11 0.3-0.4	Aug 29, 2020		Soil	S20-Se07172								X																				
142	JB11 0.5-0.6	Aug 29, 2020		Soil	S20-Se07173								X																				
143	JB11 1.4-1.5	Aug 29, 2020		Soil	S20-Se07174								X																				
144	JB10 0.2-0.3	Aug 29, 2020		Soil	S20-Se07175								X																				
145	JB10 1-1.1	Aug 29, 2020		Soil	S20-Se07176								X																				
146	JB10 2.8-2.9	Aug 29, 2020		Soil	S20-Se07177								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
147	JB05 0.3-0.4	Aug 29, 2020		Soil	S20-Se07178								X																				
148	JB05 1-1.1	Aug 29, 2020		Soil	S20-Se07179								X																				
149	JB04 0-0.1	Aug 29, 2020		Soil	S20-Se07180								X																				
150	JB04 0.5-0.6	Aug 29, 2020		Soil	S20-Se07181								X																				
151	JB04 1-1.1	Aug 29, 2020		Soil	S20-Se07182								X																				
152	JB82 0.3-0.4	Aug 29, 2020		Soil	S20-Se07183								X																				
153	JB82 0.5-0.6	Aug 29, 2020		Soil	S20-Se07184								X																				
154	JB83 0.3-0.4	Aug 29, 2020		Soil	S20-Se07185								X																				
155	JB83 1-1.1	Aug 29, 2020		Soil	S20-Se07186								X																				
156	JB83 2-2.1	Aug 29, 2020		Soil	S20-Se07187								X																				
157	JB32 0.5-0.8	Aug 30, 2020		Soil	S20-Se07188								X																				
158	JB32 1.4-1.5	Aug 30, 2020		Soil	S20-Se07189								X																				
159	JB32 1.6-1.8	Aug 30, 2020		Soil	S20-Se07190								X																				

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
160	JB32 2.6-2.7	Aug 30, 2020		Soil	S20-Se07191								X																				
161	JB32 3-3.1	Aug 30, 2020		Soil	S20-Se07192								X																				
162	JB32 4-4.1	Aug 30, 2020		Soil	S20-Se07193								X																				
163	JB40 0.9-1	Aug 30, 2020		Soil	S20-Se07194								X																				
164	JB40 2.8-3	Aug 30, 2020		Soil	S20-Se07195								X																				
165	JB40 3.9-4	Aug 30, 2020		Soil	S20-Se07196								X																				
166	JB24 0.4-0.5	Aug 30, 2020		Soil	S20-Se07197								X																				
167	JB24 1-1.1	Aug 30, 2020		Soil	S20-Se07198								X																				
168	JB24 3.4-3.5	Aug 30, 2020		Soil	S20-Se07199								X																				
169	JB24 5-5.1	Aug 30, 2020		Soil	S20-Se07200								X																				
170	JB85 0.05-0.3	Aug 30, 2020		Soil	S20-Se07201								X																				
171	JB85 0.3-0.5	Aug 30, 2020		Soil	S20-Se07202								X																				
172	JB85 1-1.1	Aug 30, 2020		Soil	S20-Se07203								X																				

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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
173	JB85 1.2-1.4	Aug 30, 2020		Soil	S20-Se07204								X																				
174	JB85 1.6-2.2	Aug 30, 2020		Soil	S20-Se07205								X																				
175	JB85 2.6-2.8	Aug 30, 2020		Soil	S20-Se07206								X																				
176	JB85 2.5-2.8	Aug 30, 2020		Soil	S20-Se07207								X																				
177	JB85 3.4-3.5	Aug 30, 2020		Soil	S20-Se07208								X																				
178	JB81 0.1-0.2	Aug 29, 2020		Soil	S20-Se07209								X																				
179	JB81 2-2.1	Aug 29, 2020		Soil	S20-Se07210								X																				
180	JB81 3-3.1	Aug 29, 2020		Soil	S20-Se07211								X																				
181	JB81 4.6-4.7	Aug 29, 2020		Soil	S20-Se07212								X																				
182	JB66 0-0.1	Aug 29, 2020		Soil	S20-Se07213								X																				
183	JB66 1-1.1	Aug 29, 2020		Soil	S20-Se07214								X																				
184	JB66 3-3.1	Aug 29, 2020		Soil	S20-Se07215								X																				
185	JB66 5-5.1	Aug 29, 2020		Soil	S20-Se07216								X																				

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Phone: 02 8245 0300
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Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
186	JB66 6-6.1	Aug 29, 2020		Soil	S20-Se07217								X																				
187	JB66 7-7.1	Aug 29, 2020		Soil	S20-Se07218								X																				
188	JB48 0.4-0.5	Aug 29, 2020		Soil	S20-Se07219								X																				
189	JB48 1.9-2	Aug 29, 2020		Soil	S20-Se07220								X																				
190	JB48 4-4.1	Aug 29, 2020		Soil	S20-Se07221								X																				
191	JB17a 0-0.1	Aug 30, 2020		Soil	S20-Se07689			X										X	X							X							
192	JB17a 1-1.1	Aug 30, 2020		Soil	S20-Se07690													X	X					X		X							
193	JB17a 0.3-0.4	Aug 30, 2020		Soil	S20-Se07691								X																				
194	JB17a 0.5-0.6	Aug 30, 2020		Soil	S20-Se07692								X																				
195	JB17a 1.5-1.6	Aug 30, 2020		Soil	S20-Se07693								X																				
196	JB48 5.5-5.6	Aug 29, 2020		Soil	S20-Se08028								X																				
197	UNLABELLED JAR	Aug 29, 2020		Soil	S20-Se08029								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
198	UNLABELLED BAG	Aug 29, 2020		Soil	S20-Se08030								X																				
Test Counts						16	16	59	2	1	16	16	107	16	16	16	16	21	24	1	33	33	25	25	80	80	12	53	53	1	1	16	2

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se07033, S20-Se07034, S20-Se07044, S20-Se07062, S20-Se07088, S20-Se07090, S20-Se07095, S20-Se07099 to S20-Se07105 and S20-Se07119: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742039-S**
Project name PLE
Project ID 58238
Received Date Sep 03, 2020

Client Sample ID			**JB58 0-0.1**	**JB58 0.3-0.4**	**JB58 3-3.1**	**JB60 0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se07032**	**S20-Se07033**	**S20-Se07034**	**S20-Se07035**
Date Sampled			**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.2	3.9	2.9	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	190	210	340	8.2
Copper	5	mg/kg	26	32	41	23
Lead	5	mg/kg	19	15	8.5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	76	150	260	5.3
Zinc	5	mg/kg	43	64	62	12
% Moisture	1	%	16	23	23	13
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	86	-	64
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100

Client Sample ID			JB58 0-0.1	JB58 0.3-0.4	JB58 3-3.1	JB60 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07032	S20-Se07033	S20-Se07034	S20-Se07035
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	69	82	60
p-Terphenyl-d14 (surr.)	1	%	-	102	111	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	111	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	100	-	94

Client Sample ID			JB58 0-0.1	JB58 0.3-0.4	JB58 3-3.1	JB60 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07032	S20-Se07033	S20-Se07034	S20-Se07035
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	111	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	100	-	94
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	109	-	-
13C5-PFPeA (surr.)	1	%	-	94	-	-
13C5-PFHxA (surr.)	1	%	-	131	-	-
13C4-PFHpA (surr.)	1	%	-	134	-	-
13C8-PFOA (surr.)	1	%	-	116	-	-
13C5-PFNA (surr.)	1	%	-	132	-	-
13C6-PFDA (surr.)	1	%	-	98	-	-
13C2-PFUnDA (surr.)	1	%	-	95	-	-
13C2-PFDoDA (surr.)	1	%	-	95	-	-
13C2-PFTeDA (surr.)	1	%	-	96	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	114	-	-
D3-N-MeFOSA (surr.)	1	%	-	126	-	-
D5-N-EtFOSA (surr.)	1	%	-	95	-	-
D7-N-MeFOSE (surr.)	1	%	-	92	-	-
D9-N-EtFOSE (surr.)	1	%	-	84	-	-
D5-N-EtFOSAA (surr.)	1	%	-	94	-	-
D3-N-MeFOSAA (surr.)	1	%	-	93	-	-

Client Sample ID			JB58 0-0.1	JB58 0.3-0.4	JB58 3-3.1	JB60 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07032	S20-Se07033	S20-Se07034	S20-Se07035
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	94	-	-
18O2-PFHxS (surr.)	1	%	-	123	-	-
13C8-PFOS (surr.)	1	%	-	133	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	149	-	-
13C2-6:2 FTSA (surr.)	1	%	-	83	-	-
13C2-8:2 FTSA (surr.)	1	%	-	96	-	-
13C2-10:2 FTSA (surr.)	1	%	-	90	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	-	-	10000
Arsenic	2	mg/kg	8.4	5.9	9.9	8.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	55	41	22	13
Copper	5	mg/kg	40	75	39	33
Iron	20	mg/kg	-	-	-	23000
Lead	5	mg/kg	20	29	22	84
Manganese	5	mg/kg	-	-	-	1900
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	73	43	31	20
Zinc	5	mg/kg	66	99	100	66

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
% Moisture	1	%	11	10.0	9.8	9.2
Cyanide (free)	1	mg/kg	-	-	-	< 1
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	120
TRH C29-C36	50	mg/kg	< 50	-	< 50	62
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	182
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	-	85	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	160
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	160
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	-	73	75
p-Terphenyl-d14 (surr.)	1	%	95	-	109	111

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	110	-	136	INT
Tetrachloro-m-xylene (surr.)	1	%	99	-	106	95
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	110	-	136	INT
Tetrachloro-m-xylene (surr.)	1	%	99	-	106	95
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	104	-
13C5-PFPeA (surr.)	1	%	-	-	90	-
13C5-PFHxA (surr.)	1	%	-	-	124	-
13C4-PFHpA (surr.)	1	%	-	-	126	-
13C8-PFOA (surr.)	1	%	-	-	127	-
13C5-PFNA (surr.)	1	%	-	-	138	-
13C6-PFDA (surr.)	1	%	-	-	105	-
13C2-PFUnDA (surr.)	1	%	-	-	97	-
13C2-PFDoDA (surr.)	1	%	-	-	96	-
13C2-PFTeDA (surr.)	1	%	-	-	98	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	115	-
D3-N-MeFOSA (surr.)	1	%	-	-	118	-
D5-N-EtFOSA (surr.)	1	%	-	-	89	-
D7-N-MeFOSE (surr.)	1	%	-	-	94	-
D9-N-EtFOSE (surr.)	1	%	-	-	89	-
D5-N-EtFOSAA (surr.)	1	%	-	-	105	-
D3-N-MeFOSAA (surr.)	1	%	-	-	99	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	84	-
18O2-PFHxS (surr.)	1	%	-	-	124	-
13C8-PFOS (surr.)	1	%	-	-	137	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	-	-	182	-
13C2-6:2 FTSA (surr.)	1	%	-	-	134	-
13C2-8:2 FTSA (surr.)	1	%	-	-	123	-
13C2-10:2 FTSA (surr.)	1	%	-	-	100	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB87 0.3-0.4	JB87 1-1.1	JB87 2-2.1	JB53 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07036	S20-Se07037	S20-Se07038	S20-Se07039
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	91
Toluene-d8 (surr.)	1	%	-	-	-	86

Client Sample ID			JB53 2-2.1	JB88 0-0.1	JB88 0.5-0.6	JB88 3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07040	S20-Se07042	S20-Se07043	S20-Se07044
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.9	2.5	-	8.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	12	44	-	24
Copper	5	mg/kg	37	25	-	39
Lead	5	mg/kg	18	11	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	23	61	-	38
Zinc	5	mg/kg	74	33	-	93
% Moisture	1	%	10	14	25	19
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	90	-	-	-
TRH C29-C36	50	mg/kg	69	-	-	-
TRH C10-C36 (Total)	50	mg/kg	159	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			JB53 2-2.1	JB88 0-0.1	JB88 0.5-0.6	JB88 3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07040	S20-Se07042	S20-Se07043	S20-Se07044
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	80	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	140	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	140	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	67	68	-	65
p-Terphenyl-d14 (surr.)	1	%	92	84	-	97
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			JB53 2-2.1	JB88 0-0.1	JB88 0.5-0.6	JB88 3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07040	S20-Se07042	S20-Se07043	S20-Se07044
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	89	-
Toluene-d8 (surr.)	1	%	-	-	87	-

Client Sample ID			JB86 0.3-0.4	JB86 2-2.1	JB86A 0.3-0.4	JB55 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07045	S20-Se07046	S20-Se07047	S20-Se07048
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	9500	-	-	-
Arsenic	2	mg/kg	7.7	4.8	12	4.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	11	20	69
Copper	5	mg/kg	38	32	46	34
Iron	20	mg/kg	24000	-	-	-
Lead	5	mg/kg	16	13	22	11
Manganese	5	mg/kg	740	-	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	19	28	69
Zinc	5	mg/kg	75	59	88	48
% Moisture	1	%	11	12	8.5	14
Cyanide (free)	1	mg/kg	< 1	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	97	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	97	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	-	-	94
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	110	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	110	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB86 0.3-0.4	JB86 2-2.1	JB86A 0.3-0.4	JB55 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07045	S20-Se07046	S20-Se07047	S20-Se07048
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	64	68	70	71
p-Terphenyl-d14 (surr.)	1	%	103	100	90	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	126	147	-	141
Tetrachloro-m-xylene (surr.)	1	%	91	77	-	101
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	126	147	-	141
Tetrachloro-m-xylene (surr.)	1	%	91	77	-	101

Client Sample ID			JB86 0.3-0.4	JB86 2-2.1	JB86A 0.3-0.4	JB55 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07045	S20-Se07046	S20-Se07047	S20-Se07048
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	105	-	-	-
13C5-PFPeA (surr.)	1	%	90	-	-	-
13C5-PFHxA (surr.)	1	%	132	-	-	-
13C4-PFHpA (surr.)	1	%	132	-	-	-
13C8-PFOA (surr.)	1	%	119	-	-	-
13C5-PFNA (surr.)	1	%	137	-	-	-
13C6-PFDA (surr.)	1	%	100	-	-	-
13C2-PFUnDA (surr.)	1	%	97	-	-	-
13C2-PFDoDA (surr.)	1	%	95	-	-	-
13C2-PFTeDA (surr.)	1	%	102	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	113	-	-	-
D3-N-MeFOSA (surr.)	1	%	109	-	-	-
D5-N-EtFOSA (surr.)	1	%	85	-	-	-
D7-N-MeFOSE (surr.)	1	%	93	-	-	-
D9-N-EtFOSE (surr.)	1	%	86	-	-	-
D5-N-EtFOSAA (surr.)	1	%	98	-	-	-
D3-N-MeFOSAA (surr.)	1	%	97	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	84	-	-	-

Client Sample ID			JB86 0.3-0.4	JB86 2-2.1	JB86A 0.3-0.4	JB55 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07045	S20-Se07046	S20-Se07047	S20-Se07048
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
18O2-PFHxS (surr.)	1	%	123	-	-	-
13C8-PFOS (surr.)	1	%	131	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	151	-	-	-
13C2-6:2 FTSA (surr.)	1	%	110	-	-	-
13C2-8:2 FTSA (surr.)	1	%	112	-	-	-
13C2-10:2 FTSA (surr.)	1	%	94	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			JB86 0.3-0.4	JB86 2-2.1	JB86A 0.3-0.4	JB55 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07045	S20-Se07046	S20-Se07047	S20-Se07048
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	85	91	-	-
Toluene-d8 (surr.)	1	%	86	87	-	-

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	12000	-	-	-
Arsenic	2	mg/kg	2.8	8.1	5.0	7.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	110	110	53
Copper	5	mg/kg	25	32	48	35
Iron	20	mg/kg	23000	-	-	-
Lead	5	mg/kg	9.1	22	12	19
Manganese	5	mg/kg	420	-	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	72	87	45
Zinc	5	mg/kg	36	60	59	97

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
% Moisture	1	%	13	20	23	11
Cyanide (free)	1	mg/kg	< 1	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	73	-	-	-
TRH C10-C36 (Total)	50	mg/kg	73	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	133	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	55	65	69	77
p-Terphenyl-d14 (surr.)	1	%	94	89	97	101

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	123	100	-	-
Tetrachloro-m-xylene (surr.)	1	%	91	90	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	123	100	-	-
Tetrachloro-m-xylene (surr.)	1	%	91	90	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	105	-	-	105
13C5-PFPeA (surr.)	1	%	94	-	-	93
13C5-PFHxA (surr.)	1	%	139	-	-	122
13C4-PFHpA (surr.)	1	%	131	-	-	129
13C8-PFOA (surr.)	1	%	116	-	-	115
13C5-PFNA (surr.)	1	%	139	-	-	127
13C6-PFDA (surr.)	1	%	101	-	-	96
13C2-PFUnDA (surr.)	1	%	96	-	-	93
13C2-PFDoDA (surr.)	1	%	100	-	-	93
13C2-PFTeDA (surr.)	1	%	104	-	-	96
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	119	-	-	111
D3-N-MeFOSA (surr.)	1	%	120	-	-	119
D5-N-EtFOSA (surr.)	1	%	95	-	-	88
D7-N-MeFOSE (surr.)	1	%	104	-	-	93
D9-N-EtFOSE (surr.)	1	%	98	-	-	87
D5-N-EtFOSAA (surr.)	1	%	104	-	-	97
D3-N-MeFOSAA (surr.)	1	%	95	-	-	93
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	89	-	-	93
18O2-PFHxS (surr.)	1	%	128	-	-	128
13C8-PFOS (surr.)	1	%	137	-	-	132
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	127	-	-	123
13C2-6:2 FTSA (surr.)	1	%	94	-	-	90
13C2-8:2 FTSA (surr.)	1	%	101	-	-	94
13C2-10:2 FTSA (surr.)	1	%	96	-	-	88
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB55 1-1.1	JB55 3-3.1	JB54 0.3-0.4	JB54 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07049	S20-Se07050	S20-Se07052	S20-Se07053
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	133	-	-	-
Toluene-d8 (surr.)	1	%	85	-	-	-

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	-	-	7100
Arsenic	2	mg/kg	2.5	3.4	7.4	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	39	19	120	5.4
Copper	5	mg/kg	71	25	32	71
Iron	20	mg/kg	-	-	-	9000
Lead	5	mg/kg	5.5	9.1	9.0	< 5
Manganese	5	mg/kg	-	-	-	480
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	120	14	87	5.8
Zinc	5	mg/kg	87	34	52	23
% Moisture	1	%	11	15	17	7.5
Cyanide (free)	1	mg/kg	-	-	-	< 1
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	87	70	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	72	58	67	81
p-Terphenyl-d14 (surr.)	1	%	96	96	98	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	127	108	134
Tetrachloro-m-xylene (surr.)	1	%	-	85	91	98
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	127	108	134
Tetrachloro-m-xylene (surr.)	1	%	-	85	91	98
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	92
Toluene-d8 (surr.)	1	%	-	-	-	87
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
1-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
1-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
2-Nitroaniline	0.5	mg/kg	-	-	-	< 0.5
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2-Picoline	0.5	mg/kg	-	-	-	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	-	-	< 5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2.4-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
3-Methylcholanthrene	0.5	mg/kg	-	-	-	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	-	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	5	mg/kg	-	-	-	< 5
4.4'-DDD	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDE	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDT	0.5	mg/kg	-	-	-	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
a-BHC	0.5	mg/kg	-	-	-	< 0.5
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Acetophenone	0.5	mg/kg	-	-	-	< 0.5
Aldrin	0.5	mg/kg	-	-	-	< 0.5
Aniline	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
b-BHC	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Benzyl chloride	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB54 2-2.1	JB46 0-0.1	JB46 0.5-0.6	JB84 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07054	S20-Se07055	S20-Se07056	S20-Se07057
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	-	-	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
d-BHC	0.5	mg/kg	-	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	-	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	-	-	-	< 0.5
Dieldrin	0.5	mg/kg	-	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	-	-	-	< 0.5
Diphenylamine	0.5	mg/kg	-	-	-	< 0.5
Endosulfan I	0.5	mg/kg	-	-	-	< 0.5
Endosulfan II	0.5	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	-	-	-	< 0.5
Endrin	0.5	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	-	-	-	< 0.5
Endrin ketone	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	-	-	-	< 0.5
Heptachlor	0.5	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachloroethane	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Methoxychlor	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Phenol	0.5	mg/kg	-	-	-	< 0.5
Pronamide	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Trifluralin	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	74
Nitrobenzene-d5 (surr.)	1	%	-	-	-	78
2-Fluorobiphenyl (surr.)	1	%	-	-	-	81
2.4.6-Tribromophenol (surr.)	1	%	-	-	-	47

Client Sample ID			JB84 1.4-1.5	JB19-03	JB19-05	JB18 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07058	S20-Se07059	S20-Se07060	S20-Se07061
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	810	< 5	12	16
Copper	5	mg/kg	55	160	36	46
Lead	5	mg/kg	< 5	8.2	< 5	5.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	450	< 5	11	23
Zinc	5	mg/kg	110	50	35	57
% Moisture	1	%	30	19	6.1	9.3
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	INT	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB84 1.4-1.5	JB19-03	JB19-05	JB18 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07058	S20-Se07059	S20-Se07060	S20-Se07061
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	58	82	65
p-Terphenyl-d14 (surr.)	1	%	92	94	99	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	119
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	89
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	119
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	89

Client Sample ID			JB84 1.4-1.5	JB19-03	JB19-05	JB18 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07058	S20-Se07059	S20-Se07060	S20-Se07061
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB84 1.4-1.5	JB19-03	JB19-05	JB18 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07058	S20-Se07059	S20-Se07060	S20-Se07061
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88
Toluene-d8 (surr.)	1	%	-	-	-	86

Client Sample ID			JB18 0.5-0.6	JB17 0-0.1	JB17 1-1.1	JB16 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07062	S20-Se07063	S20-Se07064	S20-Se07065
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	11000	46000	-
Arsenic	2	mg/kg	< 2	2.9	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.5	36	580	320
Copper	5	mg/kg	44	58	50	52
Iron	20	mg/kg	-	23000	89000	-
Lead	5	mg/kg	< 5	12	< 5	6.9
Manganese	5	mg/kg	-	510	1400	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.4	51	420	290
Zinc	5	mg/kg	28	100	99	91
% Moisture	1	%	13	19	27	24
Cyanide (free)	1	mg/kg	-	< 1	< 1	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	23	-	-
TRH C15-C28	50	mg/kg	< 50	170	-	-
TRH C29-C36	50	mg/kg	< 50	120	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	313	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	94	94	-	-

Client Sample ID			JB18 0.5-0.6	JB17 0-0.1	JB17 1-1.1	JB16 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07062	S20-Se07063	S20-Se07064	S20-Se07065
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	240	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	240	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	107	103	78
p-Terphenyl-d14 (surr.)	1	%	107	106	136	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			JB18 0.5-0.6	JB17 0-0.1	JB17 1-1.1	JB16 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07062	S20-Se07063	S20-Se07064	S20-Se07065
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	123	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB*	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	123	-	-

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	8.3	7.6	4.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	620	24	13	34
Copper	5	mg/kg	50	25	41	70
Lead	5	mg/kg	< 5	11	16	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	460	30	22	48
Zinc	5	mg/kg	100	67	72	84
% Moisture	1	%	28	17	10	10.0
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	71
TRH C29-C36	50	mg/kg	-	< 50	-	70
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	141

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	95	-	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	120
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	120
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	1.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.7
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	6.4
2-Fluorobiphenyl (surr.)	1	%	99	68	84	54
p-Terphenyl-d14 (surr.)	1	%	110	107	115	81
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	135	-	INT
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	92
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	135	-	INT
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	92
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	70	-	-
13C5-PFPeA (surr.)	1	%	-	69	-	-
13C5-PFHxA (surr.)	1	%	-	101	-	-
13C4-PFHpA (surr.)	1	%	-	101	-	-
13C8-PFOA (surr.)	1	%	-	100	-	-
13C5-PFNA (surr.)	1	%	-	118	-	-
13C6-PFDA (surr.)	1	%	-	90	-	-
13C2-PFUnDA (surr.)	1	%	-	89	-	-

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	-	91	-	-
13C2-PFTeDA (surr.)	1	%	-	87	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	114	-	-
D3-N-MeFOSA (surr.)	1	%	-	131	-	-
D5-N-EtFOSA (surr.)	1	%	-	90	-	-
D7-N-MeFOSE (surr.)	1	%	-	90	-	-
D9-N-EtFOSE (surr.)	1	%	-	100	-	-
D5-N-EtFOSAA (surr.)	1	%	-	94	-	-
D3-N-MeFOSAA (surr.)	1	%	-	92	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	85	-	-
18O2-PFHxS (surr.)	1	%	-	122	-	-
13C8-PFOS (surr.)	1	%	-	132	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	89	-	-
13C2-6:2 FTSA (surr.)	1	%	-	71	-	-
13C2-8:2 FTSA (surr.)	1	%	-	89	-	-
13C2-10:2 FTSA (surr.)	1	%	-	86	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			JB16 3-3.1	JB12 0.3-0.4	JB12 1.1-1.2	JB15 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07066	S20-Se07067	S20-Se07068	S20-Se07069
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	95	-	90
Toluene-d8 (surr.)	1	%	-	89	-	85

Client Sample ID			JB15 2-2.1	JB14 0-0.1	JB11 0-0.1	JB11 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07070	S20-Se07071	S20-Se07072	S20-Se07073
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.1	2.5	3.4	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	60	8.0	15	23
Copper	5	mg/kg	120	51	10	37
Lead	5	mg/kg	11	5.6	6.6	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	48	8.2	9.0	33
Zinc	5	mg/kg	73	31	31	83
% Moisture	1	%	10	6.1	7.2	8.0
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	0.2
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	2.0
o-Xylene	0.1	mg/kg	< 0.1	-	-	0.2
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	2.3
4-Bromofluorobenzene (surr.)	1	%	89	-	-	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100

Client Sample ID			JB15 2-2.1	JB14 0-0.1	JB11 0-0.1	JB11 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07070	S20-Se07071	S20-Se07072	S20-Se07073
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	77	73	76	71
p-Terphenyl-d14 (surr.)	1	%	98	96	103	95
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	111
13C5-PFPeA (surr.)	1	%	-	-	-	101
13C5-PFHxA (surr.)	1	%	-	-	-	138
13C4-PFHpA (surr.)	1	%	-	-	-	129
13C8-PFOA (surr.)	1	%	-	-	-	120
13C5-PFNA (surr.)	1	%	-	-	-	131
13C6-PFDA (surr.)	1	%	-	-	-	103
13C2-PFUnDA (surr.)	1	%	-	-	-	97
13C2-PFDoDA (surr.)	1	%	-	-	-	98
13C2-PFTeDA (surr.)	1	%	-	-	-	99

Client Sample ID			JB15 2-2.1	JB14 0-0.1	JB11 0-0.1	JB11 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07070	S20-Se07071	S20-Se07072	S20-Se07073
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	116
D3-N-MeFOSA (surr.)	1	%	-	-	-	128
D5-N-EtFOSA (surr.)	1	%	-	-	-	99
D7-N-MeFOSE (surr.)	1	%	-	-	-	107
D9-N-EtFOSE (surr.)	1	%	-	-	-	98
D5-N-EtFOSAA (surr.)	1	%	-	-	-	103
D3-N-MeFOSAA (surr.)	1	%	-	-	-	102
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	98
18O2-PFHxS (surr.)	1	%	-	-	-	125
13C8-PFOS (surr.)	1	%	-	-	-	144
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	107
13C2-6:2 FTSA (surr.)	1	%	-	-	-	74
13C2-8:2 FTSA (surr.)	1	%	-	-	-	91
13C2-10:2 FTSA (surr.)	1	%	-	-	-	92
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			JB15 2-2.1	JB14 0-0.1	JB11 0-0.1	JB11 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07070	S20-Se07071	S20-Se07072	S20-Se07073
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	2.0
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	0.2
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	0.2
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB15 2-2.1	JB14 0-0.1	JB11 0-0.1	JB11 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07070	S20-Se07071	S20-Se07072	S20-Se07073
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	2.3
Total MAH*	0.5	mg/kg	-	-	-	2.4
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	82
Toluene-d8 (surr.)	1	%	-	-	-	86

Client Sample ID			JB10 0-0.1	JB10 0.5-0.6	JB10 2-2.1	JB05 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07074	S20-Se07075	S20-Se07076	S20-Se07077
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.6	3.3	2.9	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	7.6	13	5.8
Copper	5	mg/kg	42	17	26	21
Lead	5	mg/kg	6.6	< 5	7.9	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	17	14	20	< 5
Zinc	5	mg/kg	40	46	49	18
% Moisture	1	%	11	5.7	11	9.2
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	1.0	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	1.1	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77	-	89	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100

Client Sample ID			JB10 0-0.1	JB10 0.5-0.6	JB10 2-2.1	JB05 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07074	S20-Se07075	S20-Se07076	S20-Se07077
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	94	86	87
p-Terphenyl-d14 (surr.)	1	%	102	111	93	78
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			JB10 0-0.1	JB10 0.5-0.6	JB10 2-2.1	JB05 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07074	S20-Se07075	S20-Se07076	S20-Se07077
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Bromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	1.0	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	-	-	0.1	< 0.1
Styrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	1.1	< 0.3
Total MAH*	0.5	mg/kg	-	-	1.1	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	89	89
Toluene-d8 (surr.)	1	%	-	-	86	87
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
1-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
1-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB10 0-0.1	JB10 0.5-0.6	JB10 2-2.1	JB05 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07074	S20-Se07075	S20-Se07076	S20-Se07077
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
2-Nitroaniline	0.5	mg/kg	-	-	-	< 0.5
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2-Picoline	0.5	mg/kg	-	-	-	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	-	-	< 5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2.4-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
3-Methylcholanthrene	0.5	mg/kg	-	-	-	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	-	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	5	mg/kg	-	-	-	< 5
4.4'-DDD	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDE	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDT	0.5	mg/kg	-	-	-	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
a-BHC	0.5	mg/kg	-	-	-	< 0.5
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Acetophenone	0.5	mg/kg	-	-	-	< 0.5
Aldrin	0.5	mg/kg	-	-	-	< 0.5
Aniline	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
b-BHC	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Benzyl chloride	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	-	-	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
d-BHC	0.5	mg/kg	-	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB10 0-0.1	JB10 0.5-0.6	JB10 2-2.1	JB05 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07074	S20-Se07075	S20-Se07076	S20-Se07077
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Di-n-octyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	-	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	-	-	-	< 0.5
Dieldrin	0.5	mg/kg	-	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	-	-	-	< 0.5
Diphenylamine	0.5	mg/kg	-	-	-	< 0.5
Endosulfan I	0.5	mg/kg	-	-	-	< 0.5
Endosulfan II	0.5	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	-	-	-	< 0.5
Endrin	0.5	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	-	-	-	< 0.5
Endrin ketone	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	-	-	-	< 0.5
Heptachlor	0.5	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachloroethane	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Methoxychlor	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Phenol	0.5	mg/kg	-	-	-	< 0.5
Pronamide	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Trifluralin	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	80
Nitrobenzene-d5 (surr.)	1	%	-	-	-	87
2-Fluorobiphenyl (surr.)	1	%	-	-	-	87
2.4.6-Tribromophenol (surr.)	1	%	-	-	-	45

Client Sample ID			JB05 0.5-0.6	JB05 2-2.1	JB04 0.2-0.3	JB82 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07078	S20-Se07079	S20-Se07080	S20-Se07081
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.3	< 2	2.5	3.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	26	9.1	16
Copper	5	mg/kg	27	26	30	53
Lead	5	mg/kg	12	21	6.2	17
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	14	31	7.0	17
Zinc	5	mg/kg	50	98	26	37
% Moisture	1	%	12	14	17	11
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	90	80	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB05 0.5-0.6	JB05 2-2.1	JB04 0.2-0.3	JB82 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07078	S20-Se07079	S20-Se07080	S20-Se07081
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	-	112	128
p-Terphenyl-d14 (surr.)	1	%	90	-	97	106

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	8400	-	-	-
Arsenic	2	mg/kg	3.0	4.6	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	12	7.0	< 5	-
Copper	5	mg/kg	29	34	< 5	-
Iron	20	mg/kg	12000	-	-	-
Lead	5	mg/kg	42	17	< 5	-
Manganese	5	mg/kg	300	-	-	-
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	9.9	16	< 5	-
Zinc	5	mg/kg	52	54	< 5	-
% Moisture	1	%	6.1	13	8.3	11
Cyanide (free)	1	mg/kg	< 1	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	50	< 50	< 50	-
TRH C29-C36	50	mg/kg	53	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	103	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	104	81	88	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.9	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.2	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.4	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	1.4	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	1.4	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.1	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	1.0	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	1.6	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	1.2	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	2.7	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	1.3	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	2.9	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	15.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	87	86	65	-
p-Terphenyl-d14 (surr.)	1	%	76	102	76	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	103	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	103	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	104	-	-	84
13C5-PFPeA (surr.)	1	%	91	-	-	77
13C5-PFHxA (surr.)	1	%	129	-	-	112
13C4-PFHpA (surr.)	1	%	137	-	-	115
13C8-PFOA (surr.)	1	%	121	-	-	100
13C5-PFNA (surr.)	1	%	138	-	-	118
13C6-PFDA (surr.)	1	%	103	-	-	89
13C2-PFUnDA (surr.)	1	%	95	-	-	86
13C2-PFDoDA (surr.)	1	%	100	-	-	85
13C2-PFTeDA (surr.)	1	%	99	-	-	84
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	114	-	-	101
D3-N-MeFOSA (surr.)	1	%	115	-	-	114
D5-N-EtFOSA (surr.)	1	%	95	-	-	85
D7-N-MeFOSE (surr.)	1	%	102	-	-	97
D9-N-EtFOSE (surr.)	1	%	87	-	-	86
D5-N-EtFOSAA (surr.)	1	%	104	-	-	71
D3-N-MeFOSAA (surr.)	1	%	98	-	-	68
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	94	-	-	81
18O2-PFHxS (surr.)	1	%	131	-	-	116
13C8-PFOS (surr.)	1	%	137	-	-	119
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	136	-	-	117
13C2-6:2 FTSA (surr.)	1	%	104	-	-	80
13C2-8:2 FTSA (surr.)	1	%	92	-	-	86
13C2-10:2 FTSA (surr.)	1	%	91	-	-	80
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	104	-	-	-
Toluene-d8 (surr.)	1	%	86	-	-	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.9	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.2	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.4	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	0.5	mg/kg	< 0.5	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	0.5	mg/kg	< 0.5	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	1.4	-	-	-
Benzo(a)pyrene	0.5	mg/kg	1.4	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.1	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	1.0	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	1.6	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	1.2	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	2.7	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9	-	-	-
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB83 0.1-0.2	JB83 0.5-0.6	JB32 0.05-0.35	JB32 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07082	S20-Se07083	S20-Se07084	S20-Se07085
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	1.3	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	2.9	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	82	-	-	-
Nitrobenzene-d5 (surr.)	1	%	89	-	-	-
2-Fluorobiphenyl (surr.)	1	%	87	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	46	-	-	-

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	-	18000	11000
Arsenic	2	mg/kg	2.2	-	5.8	9.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	210	-	52	21
Copper	5	mg/kg	60	-	23	33
Iron	20	mg/kg	-	-	36000	52000
Lead	5	mg/kg	< 5	-	10	12
Manganese	5	mg/kg	-	-	130	1800
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	330	-	33	110
Zinc	5	mg/kg	94	-	17	98
% Moisture	1	%	25	10	20	5.3
Cyanide (free)	1	mg/kg	-	-	< 1	< 1
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	95	96	89

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	-	85	86
p-Terphenyl-d14 (surr.)	1	%	82	-	79	83
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	91	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	92	90
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	91	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	92	90
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	< 5
13C4-PFBA (surr.)	1	%	-	-	115	113
13C5-PFPeA (surr.)	1	%	-	-	101	101
13C5-PFHxA (surr.)	1	%	-	-	141	142
13C4-PFHpA (surr.)	1	%	-	-	144	128
13C8-PFOA (surr.)	1	%	-	-	119	115
13C5-PFNA (surr.)	1	%	-	-	143	133
13C6-PFDA (surr.)	1	%	-	-	105	99
13C2-PFUnDA (surr.)	1	%	-	-	98	97
13C2-PFDoDA (surr.)	1	%	-	-	98	96
13C2-PFTeDA (surr.)	1	%	-	-	105	98

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	< 10
13C8-FOSA (surr.)	1	%	-	-	111	119
D3-N-MeFOSA (surr.)	1	%	-	-	120	129
D5-N-EtFOSA (surr.)	1	%	-	-	96	92
D7-N-MeFOSE (surr.)	1	%	-	-	99	92
D9-N-EtFOSE (surr.)	1	%	-	-	94	100
D5-N-EtFOSAA (surr.)	1	%	-	-	100	99
D3-N-MeFOSAA (surr.)	1	%	-	-	96	99
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	< 5
13C3-PFBS (surr.)	1	%	-	-	99	92
18O2-PFHxS (surr.)	1	%	-	-	127	125
13C8-PFOS (surr.)	1	%	-	-	141	133
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	134	107
13C2-6:2 FTSA (surr.)	1	%	-	-	80	65
13C2-8:2 FTSA (surr.)	1	%	-	-	97	92
13C2-10:2 FTSA (surr.)	1	%	-	-	90	92
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	< 50

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	92	-	96	89
Toluene-d8 (surr.)	1	%	87	-	86	86
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1-Naphthylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
2-Naphthylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Nitroaniline	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Nitrophenol	1.0	mg/kg	< 1	-	< 1	< 1
2-Picoline	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	-	< 5	< 5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	< 1	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
4-Nitrophenol	5	mg/kg	< 5	-	< 5	< 5
4.4'-DDD	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4.4'-DDE	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4.4'-DDT	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
a-BHC	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aniline	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
b-BHC	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
d-BHC	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endosulfan I	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endosulfan II	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB32 0.9-1.1	JB32 5-5.1	JB40 0.3-0.5	JB40 1.6-1.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07086	S20-Se07087	S20-Se07088	S20-Se07089
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Hexachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pronamide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trifluralin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	82	-	88	84
Nitrobenzene-d5 (surr.)	1	%	88	-	90	88
2-Fluorobiphenyl (surr.)	1	%	92	-	85	86
2.4.6-Tribromophenol (surr.)	1	%	91	-	93	73

Client Sample ID			JB40 7-7.1	JB24 0-0.1	JB24 2-2.1	JB85 0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07091	S20-Se07092	S20-Se07093	S20-Se07094
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.1	25	< 2	8.2
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	< 0.4
Chromium	5	mg/kg	34	68	430	66
Copper	5	mg/kg	41	180	93	31
Lead	5	mg/kg	16	100	< 5	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	97	740	63
Zinc	5	mg/kg	75	290	180	43
% Moisture	1	%	8.7	8.0	48	20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			JB40 7-7.1	JB24 0-0.1	JB24 2-2.1	JB85 0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07091	S20-Se07092	S20-Se07093	S20-Se07094
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	104	105	82	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	52	64	53
p-Terphenyl-d14 (surr.)	1	%	53	103	98	125
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB40 7-7.1	JB24 0-0.1	JB24 2-2.1	JB85 0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07091	S20-Se07092	S20-Se07093	S20-Se07094
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	92
Toluene-d8 (surr.)	1	%	-	-	-	87

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	19000	-	-	-
Arsenic	2	mg/kg	3.3	4.5	5.3	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	45	75	230
Copper	5	mg/kg	43	33	44	38
Iron	20	mg/kg	45000	-	-	-
Lead	5	mg/kg	14	12	12	11
Manganese	5	mg/kg	1100	-	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	110	50	92	170
Zinc	5	mg/kg	57	69	66	62
% Moisture	1	%	29	11	17	17
Cyanide (free)	1	mg/kg	< 1	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	93	77	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	108	77	93
p-Terphenyl-d14 (surr.)	1	%	66	90	92	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	111	-	100	84
Tetrachloro-m-xylene (surr.)	1	%	101	-	91	96
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	111	-	100	84
Tetrachloro-m-xylene (surr.)	1	%	101	-	91	96

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	106	-
13C5-PFPeA (surr.)	1	%	-	-	96	-
13C5-PFHxA (surr.)	1	%	-	-	138	-
13C4-PFHpA (surr.)	1	%	-	-	135	-
13C8-PFOA (surr.)	1	%	-	-	124	-
13C5-PFNA (surr.)	1	%	-	-	143	-
13C6-PFDA (surr.)	1	%	-	-	101	-
13C2-PFUnDA (surr.)	1	%	-	-	98	-
13C2-PFDoDA (surr.)	1	%	-	-	102	-
13C2-PFTeDA (surr.)	1	%	-	-	112	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	120	-
D3-N-MeFOSA (surr.)	1	%	-	-	122	-
D5-N-EtFOSA (surr.)	1	%	-	-	102	-
D7-N-MeFOSE (surr.)	1	%	-	-	106	-
D9-N-EtFOSE (surr.)	1	%	-	-	105	-
D5-N-EtFOSAA (surr.)	1	%	-	-	108	-
D3-N-MeFOSAA (surr.)	1	%	-	-	105	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	103	-

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
18O2-PFHxS (surr.)	1	%	-	-	139	-
13C8-PFOS (surr.)	1	%	-	-	143	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	117	-
13C2-6:2 FTSA (surr.)	1	%	-	-	82	-
13C2-8:2 FTSA (surr.)	1	%	-	-	91	-
13C2-10:2 FTSA (surr.)	1	%	-	-	102	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	91	-	-	-
Toluene-d8 (surr.)	1	%	87	-	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	0.5	mg/kg	< 0.5	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	0.5	mg/kg	< 0.5	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB85 2-2.2	JB85 4.8-5.0	JB81 0.5-0.6	JB81 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07096	S20-Se07097	S20-Se07098	S20-Se07099
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	80	-	-	-
Nitrobenzene-d5 (surr.)	1	%	87	-	-	-
2-Fluorobiphenyl (surr.)	1	%	81	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	61	-	-	-

Client Sample ID			JB81 1.5-1.6	JB81 4-4.1	JB81 5.5-5.6	JB66 0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07100	S20-Se07101	S20-Se07102	S20-Se07103
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.8	7.3	20	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	72	53	14	62
Copper	5	mg/kg	57	39	79	44
Lead	5	mg/kg	18	14	15	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	95	57	35	56
Zinc	5	mg/kg	100	64	86	80
% Moisture	1	%	18	16	23	21
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	INT	-	INT
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			JB81 1.5-1.6	JB81 4-4.1	JB81 5.5-5.6	JB66 0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07100	S20-Se07101	S20-Se07102	S20-Se07103
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	93	125	-	95
p-Terphenyl-d14 (surr.)	1	%	97	129	-	91
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	111	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	94
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	111	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	94

Client Sample ID			JB66 2-2.1	JB66 4-4.1	JB48 0.1-0.2	JB48 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07104	S20-Se07105	S20-Se07106	S20-Se07107
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	-	8700	-
Arsenic	2	mg/kg	2.2	9.2	< 2	7.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	200	130	8.1	12
Copper	5	mg/kg	44	37	39	37
Iron	20	mg/kg	-	-	13000	-
Lead	5	mg/kg	5.7	18	< 5	16
Manganese	5	mg/kg	-	-	290	-
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	150	70	9.8	22
Zinc	5	mg/kg	55	60	35	69
% Moisture	1	%	27	23	11	15
Cyanide (free)	1	mg/kg	-	-	< 1	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	85	93	94	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	21	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	21	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB66 2-2.1	JB66 4-4.1	JB48 0.1-0.2	JB48 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07104	S20-Se07105	S20-Se07106	S20-Se07107
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	73	82	101	112
p-Terphenyl-d14 (surr.)	1	%	98	91	96	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	101	81	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	90	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	101	81	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	90	-	-

Client Sample ID			JB66 2-2.1	JB66 4-4.1	JB48 0.1-0.2	JB48 0.9-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07104	S20-Se07105	S20-Se07106	S20-Se07107
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			JB66 2-2.1	JB66 4-4.1	JB48 0.1-0.2	JB48 0.9-1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se07104**	**S20-Se07105**	**S20-Se07106**	**S20-Se07107**
Date Sampled			**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	94	-
Toluene-d8 (surr.)	1	%	-	-	87	-

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se07114**	**S20-Se07115**	**S20-Se07116**	**S20-Se07117**
Date Sampled			**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**	**Aug 29, 2020**
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	13000	6200	-	8100
Arsenic	2	mg/kg	11	4.2	5.1	< 2
Cadmium	0.4	mg/kg	0.5	0.4	< 0.4	< 0.4
Chromium	5	mg/kg	36	17	18	9.4
Copper	5	mg/kg	66	31	74	28
Iron	20	mg/kg	13000	9900	-	11000
Lead	5	mg/kg	17	100	11	< 5
Manganese	5	mg/kg	510	170	-	340
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	16	15	27	8.8
Zinc	5	mg/kg	92	92	64	21
% Moisture	1	%	62	6.0	11	9.7
Cyanide (free)	1	mg/kg	< 1	< 1	-	< 1
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	26	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	120	96	54	< 50
TRH C29-C36	50	mg/kg	< 50	86	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	146	182	54	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	95	83	94

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	120	150	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	120	150	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.6	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.9	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.1	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	2.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	2.6	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	13.7	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	84	80	82
p-Terphenyl-d14 (surr.)	1	%	86	76	98	72
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	78	109	96
Tetrachloro-m-xylene (surr.)	1	%	-	80	94	95
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	78	109	96
Tetrachloro-m-xylene (surr.)	1	%	-	80	94	95
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	-	-
13C4-PFBA (surr.)	1	%	72	96	-	-
13C5-PFPeA (surr.)	1	%	56	96	-	-
13C5-PFHxA (surr.)	1	%	59	87	-	-
13C4-PFHpA (surr.)	1	%	58	107	-	-
13C8-PFOA (surr.)	1	%	48	85	-	-
13C5-PFNA (surr.)	1	%	39	83	-	-
13C6-PFDA (surr.)	1	%	37	95	-	-
13C2-PFUnDA (surr.)	1	%	26	100	-	-
13C2-PFDoDA (surr.)	1	%	13	86	-	-
13C2-PFTeDA (surr.)	1	%	INT	120	-	-

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
13C8-FOSA (surr.)	1	%	36	107	-	-
D3-N-MeFOSA (surr.)	1	%	48	79	-	-
D5-N-EtFOSA (surr.)	1	%	63	109	-	-
D7-N-MeFOSE (surr.)	1	%	59	76	-	-
D9-N-EtFOSE (surr.)	1	%	72	76	-	-
D5-N-EtFOSAA (surr.)	1	%	29	143	-	-
D3-N-MeFOSAA (surr.)	1	%	19	127	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	-	-
13C3-PFBS (surr.)	1	%	53	117	-	-
18O2-PFHxS (surr.)	1	%	87	135	-	-
13C8-PFOS (surr.)	1	%	58	114	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	116	114	-	-
13C2-6:2 FTSA (surr.)	1	%	114	132	-	-
13C2-8:2 FTSA (surr.)	1	%	61	125	-	-
13C2-10:2 FTSA (surr.)	1	%	12	139	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-	-

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	87	95	-	94
Toluene-d8 (surr.)	1	%	87	88	-	88
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	-	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.6	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.9	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.1	-	1.2
1-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
2-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Nitroaniline	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	-	< 1
2-Picoline	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	< 5	-	< 5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	-	< 5
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
3-Methylcholanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
4-Nitrophenol	5	mg/kg	< 5	< 5	-	< 5
4.4'-DDD	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4.4'-DDE	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4.4'-DDT	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
a-BHC	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aniline	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
b-BHC	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.1	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.2	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.1	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.9	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.2	-	< 0.5
Benzyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.0	-	< 0.5
d-BHC	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endosulfan I	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endosulfan II	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endrin	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	2.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			SED01	QA20200829_MN01	QA20200829_MN02	QA20200829_MN03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07114	S20-Se07115	S20-Se07116	S20-Se07117
Date Sampled			Aug 29, 2020	Aug 29, 2020	Aug 29, 2020	Aug 29, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Hexachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	-	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pentachlorophenol	1	mg/kg	< 1	< 1	-	< 1
Phenanthrene	0.5	mg/kg	< 0.5	1.3	-	< 0.5
Phenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pronamide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	2.6	-	< 0.5
Trifluralin	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenol-d6 (surr.)	1	%	27	80	-	74
Nitrobenzene-d5 (surr.)	1	%	88	88	-	82
2-Fluorobiphenyl (surr.)	1	%	79	84	-	82
2.4.6-Tribromophenol (surr.)	1	%	41	63	-	54

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	14000	-	-	-
Arsenic	2	mg/kg	9.4	6.9	6.4	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	170	29	14
Copper	5	mg/kg	36	43	18	40
Iron	20	mg/kg	51000	-	-	-
Lead	5	mg/kg	12	15	28	21
Manganese	5	mg/kg	1100	-	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	72	150	9.2	25
Zinc	5	mg/kg	87	58	19	74
% Moisture	1	%	12	24	20	10
Cyanide (free)	1	mg/kg	< 1	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	99	138	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	77	103	98
p-Terphenyl-d14 (surr.)	1	%	72	103	120	122
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	122	102	-	-
Tetrachloro-m-xylene (surr.)	1	%	107	104	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	122	102	-	-
Tetrachloro-m-xylene (surr.)	1	%	107	104	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	99	-	-	92
Toluene-d8 (surr.)	1	%	87	-	-	88
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	0.5	mg/kg	< 0.5	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	0.5	mg/kg	< 0.5	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			QA JB02_0830	QA JB01_0829	JB17a 0-0.1	JB17a 1-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se07118	S20-Se07119	S20-Se07689	S20-Se07690
Date Sampled			Aug 30, 2020	Aug 29, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	< 0.5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	79	-	-	-
Nitrobenzene-d5 (surr.)	1	%	88	-	-	-
2-Fluorobiphenyl (surr.)	1	%	85	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	61	-	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Sydney	Sep 08, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cyanide (free)	Sydney	Sep 08, 2020	14 Days
- Method: E054 Free Cyanide			
Volatile Organics	Sydney	Sep 08, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Semivolatile Organics	Melbourne	Sep 08, 2020	14 Days
- Method: LTM-ORG-2190 SVOC in Water & Soil by GC-MS			
Metals M8	Sydney	Sep 08, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polycyclic Aromatic Hydrocarbons	Melbourne	Sep 08, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B5			
Metals M7	Sydney	Sep 05, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 08, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Brisbane	Sep 08, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Organochlorine Pesticides	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 08, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271	X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217		X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																				X	X						X	
Perth Laboratory - NATA Site # 23736																												
Newcastle Laboratory																												
External Laboratory																												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																								
1	JB58 0-0.1	Aug 30, 2020		Soil	S20-Se07032			X											X					X					
2	JB58 0.3-0.4	Aug 30, 2020		Soil	S20-Se07033			X												X					X			X		
3	JB58 3-3.1	Aug 30, 2020		Soil	S20-Se07034			X										X	X					X						
4	JB60 0-0.1	Aug 30, 2020		Soil	S20-Se07035			X												X				X			X			
5	JB87 0.3-0.4	Aug 30, 2020		Soil	S20-Se07036			X												X				X			X			
6	JB87 1-1.1	Aug 30, 2020		Soil	S20-Se07037			X											X					X						
7	JB87 2-2.1	Aug 30, 2020		Soil	S20-Se07038			X												X				X			X		X	
8	JB53 0.3-0.4	Aug 30, 2020		Soil	S20-Se07039		X	X				X			X		X			X		X		X			X			
9	JB53 2-2.1	Aug 30, 2020		Soil	S20-Se07040			X																X			X			

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Project ID: 58238

Order No.:
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Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
10	JB53 3-3.1	Aug 30, 2020		Soil	S20-Se07041			X																									
11	JB88 0-0.1	Aug 30, 2020		Soil	S20-Se07042			X										X	X						X								
12	JB88 0.5-0.6	Aug 30, 2020		Soil	S20-Se07043																			X		X								
13	JB88 3-3.1	Aug 30, 2020		Soil	S20-Se07044			X										X	X							X								
14	JB86 0.3-0.4	Aug 30, 2020		Soil	S20-Se07045		X	X				X			X		X					X		X		X			X			X		
15	JB86 2-2.1	Aug 30, 2020		Soil	S20-Se07046			X										X	X			X		X		X								
16	JB86A 0.3-0.4	Aug 30, 2020		Soil	S20-Se07047													X	X							X								
17	JB55 0-0.1	Aug 30, 2020		Soil	S20-Se07048			X														X				X			X					
18	JB55 1-1.1	Aug 30, 2020		Soil	S20-Se07049		X	X				X			X		X					X		X		X			X			X		
19	JB55 3-3.1	Aug 30, 2020		Soil	S20-Se07050													X	X			X				X								
20	JB54 0-0.1	Aug 30, 2020		Soil	S20-Se07051			X																										
21	JB54 0.3-0.4	Aug 30, 2020		Soil	S20-Se07052			X										X	X							X								
22	JB54 1-1.1	Aug 30, 2020		Soil	S20-Se07053													X	X							X							X	

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
23	JB54 2-2.1	Aug 30, 2020		Soil	S20-Se07054			X																	X			X				
24	JB46 0-0.1	Aug 30, 2020		Soil	S20-Se07055			X														X			X			X				
25	JB46 0.5-0.6	Aug 30, 2020		Soil	S20-Se07056			X														X			X			X				
26	JB84 0-0.1	Aug 29, 2020		Soil	S20-Se07057		X	X				X			X		X					X		X		X	X		X				
27	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se07058													X	X							X							
28	JB19-03	Aug 29, 2020		Soil	S20-Se07059			X																		X			X				
29	JB19-05	Aug 29, 2020		Soil	S20-Se07060			X										X	X							X							
30	JB18 0-0.1	Aug 29, 2020		Soil	S20-Se07061			X														X		X		X			X				
31	JB18 0.5-0.6	Aug 29, 2020		Soil	S20-Se07062			X																		X			X				
32	JB17 0-0.1	Aug 29, 2020		Soil	S20-Se07063		X	X				X			X		X					X				X			X				
33	JB17 1-1.1	Aug 29, 2020		Soil	S20-Se07064		X					X			X		X	X	X							X							
34	JB16 0-0.1	Aug 29, 2020		Soil	S20-Se07065													X	X							X							
35	JB16 3-3.1	Aug 29, 2020		Soil	S20-Se07066													X	X							X							

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
36	JB12 0.3-0.4	Aug 29, 2020		Soil	S20-Se07067			X														X		X		X			X			X	
37	JB12 1.1-1.2	Aug 29, 2020		Soil	S20-Se07068			X										X	X							X							
38	JB15 0-0.1	Aug 29, 2020		Soil	S20-Se07069			X														X		X		X			X				
39	JB15 2-2.1	Aug 29, 2020		Soil	S20-Se07070			X																		X			X				
40	JB14 0-0.1	Aug 29, 2020		Soil	S20-Se07071			X										X	X							X							
41	JB11 0-0.1	Aug 29, 2020		Soil	S20-Se07072			X										X	X							X							
42	JB11 1-1.1	Aug 29, 2020		Soil	S20-Se07073			X																X		X			X			X	
43	JB10 0-0.1	Aug 29, 2020		Soil	S20-Se07074			X																		X			X				
44	JB10 0.5-0.6	Aug 29, 2020		Soil	S20-Se07075			X										X	X							X							
45	JB10 2-2.1	Aug 29, 2020		Soil	S20-Se07076			X																X		X			X				
46	JB05 0-0.1	Aug 29, 2020		Soil	S20-Se07077																			X		X	X		X				
47	JB05 0.5-0.6	Aug 29, 2020		Soil	S20-Se07078			X										X	X							X							
48	JB05 2-2.1	Aug 29, 2020		Soil	S20-Se07079																					X					X		

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
49	JB04 0.2-0.3	Aug 29, 2020		Soil	S20-Se07080			X																		X			X				
50	JB82 0-0.1	Aug 29, 2020		Soil	S20-Se07081			X																		X			X				
51	JB83 0.1-0.2	Aug 29, 2020		Soil	S20-Se07082		X	X				X			X		X					X		X		X	X		X			X	
52	JB83 0.5-0.6	Aug 29, 2020		Soil	S20-Se07083			X																		X			X				
53	JB32 0.05-0.35	Aug 30, 2020		Soil	S20-Se07084																					X			X				
54	JB32 0.4-0.5	Aug 30, 2020		Soil	S20-Se07085																				X							X	
55	JB32 0.9-1.1	Aug 30, 2020		Soil	S20-Se07086																			X		X	X		X				
56	JB32 5-5.1	Aug 30, 2020		Soil	S20-Se07087																					X				X			
57	JB40 0.3-0.5	Aug 30, 2020		Soil	S20-Se07088		X	X				X			X		X					X		X		X	X		X			X	
58	JB40 1.6-1.7	Aug 30, 2020		Soil	S20-Se07089		X					X			X		X					X		X		X	X		X			X	
59	JB40 1.6-2.0	Aug 30, 2020		Soil	S20-Se07090			X																									
60	JB40 7-7.1	Aug 30, 2020		Soil	S20-Se07091																					X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
61	JB24 0-0.1	Aug 30, 2020		Soil	S20-Se07092			X																	X			X					
62	JB24 2-2.1	Aug 30, 2020		Soil	S20-Se07093																				X			X					
63	JB85 0.5-0.7	Aug 30, 2020		Soil	S20-Se07094																			X				X					
64	JB85 0.5-1.0	Aug 30, 2020		Soil	S20-Se07095			X																									
65	JB85 2-2.2	Aug 30, 2020		Soil	S20-Se07096		X					X			X		X					X		X		X	X		X					
66	JB85 4.8-5.0	Aug 30, 2020		Soil	S20-Se07097																				X			X					
67	JB81 0.5-0.6	Aug 29, 2020		Soil	S20-Se07098			X														X			X			X				X	
68	JB81 0.9-1	Aug 29, 2020		Soil	S20-Se07099			X														X			X			X					
69	JB81 1.5-1.6	Aug 29, 2020		Soil	S20-Se07100																	X			X			X					
70	JB81 4-4.1	Aug 29, 2020		Soil	S20-Se07101																				X			X					
71	JB81 5.5-5.6	Aug 29, 2020		Soil	S20-Se07102														X						X								
72	JB66 0.5-0.6	Aug 29, 2020		Soil	S20-Se07103			X														X			X			X					
73	JB66 2-2.1	Aug 29, 2020		Soil	S20-Se07104			X														X			X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
74	JB66 4-4.1	Aug 29, 2020		Soil	S20-Se07105			X														X			X			X				
75	JB48 0.1-0.2	Aug 29, 2020		Soil	S20-Se07106		X	X				X			X		X						X		X			X				
76	JB48 0.9-1	Aug 29, 2020		Soil	S20-Se07107			X										X	X						X								
77	JB53_FRAG	Aug 30, 2020		Building Materials	S20-Se07108				X																								
78	JB54_FRAG	Aug 30, 2020		Building Materials	S20-Se07109				X																								
79	RIN01	Aug 30, 2020		Water	S20-Se07110	X					X			X		X					X		X				X	X				X	
80	TS	Aug 30, 2020		Water	S20-Se07111																												X
81	TB	Aug 30, 2020		Water	S20-Se07112															X													
82	FIELD BLANK	Aug 30, 2020		Water	S20-Se07113																											X	
83	SED01	Aug 29, 2020		Soil	S20-Se07114		X					X			X		X							X		X	X		X			X	
84	QA20200829_MN01	Aug 29, 2020		Soil	S20-Se07115		X	X				X			X		X					X		X		X	X		X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
85	QA20200829_ MN02	Aug 29, 2020		Soil	S20-Se07116			X														X				X			X				
86	QA20200829_ MN03	Aug 29, 2020		Soil	S20-Se07117		X	X				X			X		X					X		X		X	X		X				
87	QA JB02_0830	Aug 30, 2020		Soil	S20-Se07118		X	X				X			X		X					X		X		X	X		X				
88	QA JB01_0829	Aug 29, 2020		Soil	S20-Se07119			X														X				X			X				
89	JB58 0.5-0.6	Aug 30, 2020		Soil	S20-Se07120								X																				
90	JB58 1-1.1	Aug 30, 2020		Soil	S20-Se07121								X																				
91	JB58 2-2.1	Aug 30, 2020		Soil	S20-Se07122								X																				
92	JB60 0.2-0.3	Aug 30, 2020		Soil	S20-Se07123								X																				
93	JB87 0-0.1	Aug 30, 2020		Soil	S20-Se07124								X																				
94	JB87 0.5-0.6	Aug 30, 2020		Soil	S20-Se07125								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
95	JB87 3-3.1	Aug 30, 2020		Soil	S20-Se07126								X																				
96	JB53 0-0.1	Aug 30, 2020		Soil	S20-Se07127								X																				
97	JB53 0.5-0.6	Aug 30, 2020		Soil	S20-Se07128								X																				
98	JB53 1-1.1	Aug 30, 2020		Soil	S20-Se07129								X																				
99	JB88 0.3-0.4	Aug 30, 2020		Soil	S20-Se07130								X																				
100	JB88 1-1.1	Aug 30, 2020		Soil	S20-Se07131								X																				
101	JB88 2-2.1	Aug 30, 2020		Soil	S20-Se07132								X																				
102	JB86 0-0.1	Aug 30, 2020		Soil	S20-Se07133								X																				
103	JB86 0.5-0.6	Aug 30, 2020		Soil	S20-Se07134								X																				
104	JB86 1-1.1	Aug 30, 2020		Soil	S20-Se07135								X																				
105	JB86 3-3.1	Aug 30, 2020		Soil	S20-Se07136								X																				
106	JB55 0.3-0.4	Aug 30, 2020		Soil	S20-Se07137								X																				
107	JB55 0.5-0.6	Aug 30, 2020		Soil	S20-Se07138								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
108	JB55 2-2.1	Aug 30, 2020		Soil	S20-Se07139								X																				
109	JB54 0.5-0.6	Aug 30, 2020		Soil	S20-Se07140								X																				
110	JB54 3-3.1	Aug 30, 2020		Soil	S20-Se07141					X																							
111	JB46 0.3-0.4	Aug 30, 2020		Soil	S20-Se07142								X																				
112	JB46 1-1.1	Aug 30, 2020		Soil	S20-Se07143								X																				
113	JB84 0.3-0.4	Aug 29, 2020		Soil	S20-Se07144								X																				
114	JB84 0.5-0.6	Aug 29, 2020		Soil	S20-Se07145								X																				
115	JB84 1-1.1	Aug 29, 2020		Soil	S20-Se07146								X																				
116	JB19-01	Aug 29, 2020		Soil	S20-Se07147								X																				
117	JB19-02	Aug 29, 2020		Soil	S20-Se07148								X																				
118	JB19-04	Aug 29, 2020		Soil	S20-Se07149								X																				
119	JB18 0.3-0.4	Aug 29, 2020		Soil	S20-Se07150								X																				
120	JB18 1-1.1	Aug 29, 2020		Soil	S20-Se07151								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
121	JB18 1.9-2.0	Aug 29, 2020		Soil	S20-Se07152								X																				
122	JB17 0.3-0.4	Aug 29, 2020		Soil	S20-Se07153								X																				
123	JB17 0.5-0.6	Aug 29, 2020		Soil	S20-Se07154								X																				
124	JB17 1.9-2.0	Aug 29, 2020		Soil	S20-Se07155								X																				
125	JB16 0.3-0.4	Aug 29, 2020		Soil	S20-Se07156								X																				
126	JB16 0.5-0.6	Aug 29, 2020		Soil	S20-Se07157								X																				
127	JB16 1-1.1	Aug 29, 2020		Soil	S20-Se07158								X																				
128	JB16 2-2.1	Aug 29, 2020		Soil	S20-Se07159								X																				
129	JB12 0-0.1	Aug 29, 2020		Soil	S20-Se07160								X																				
130	JB12 0.5-0.6	Aug 29, 2020		Soil	S20-Se07161								X																				
131	JB12 2-2.1	Aug 29, 2020		Soil	S20-Se07162								X																				
132	JB15 0.3-0.4	Aug 29, 2020		Soil	S20-Se07163								X																				
133	JB15 0.5-0.6	Aug 29, 2020		Soil	S20-Se07164								X																				

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Project Name: PLE
Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
134	JB15 1-1.1	Aug 29, 2020		Soil	S20-Se07165								X																				
135	JB15 3-3.1	Aug 29, 2020		Soil	S20-Se07166								X																				
136	JB14 0.3-0.4	Aug 29, 2020		Soil	S20-Se07167								X																				
137	JB14 0.5-0.6	Aug 29, 2020		Soil	S20-Se07168								X																				
138	JB14 1-1.1	Aug 29, 2020		Soil	S20-Se07169								X																				
139	JB14 2-2.1	Aug 29, 2020		Soil	S20-Se07170								X																				
140	JB14 3-3.1	Aug 29, 2020		Soil	S20-Se07171								X																				
141	JB11 0.3-0.4	Aug 29, 2020		Soil	S20-Se07172								X																				
142	JB11 0.5-0.6	Aug 29, 2020		Soil	S20-Se07173								X																				
143	JB11 1.4-1.5	Aug 29, 2020		Soil	S20-Se07174								X																				
144	JB10 0.2-0.3	Aug 29, 2020		Soil	S20-Se07175								X																				
145	JB10 1-1.1	Aug 29, 2020		Soil	S20-Se07176								X																				
146	JB10 2.8-2.9	Aug 29, 2020		Soil	S20-Se07177								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
147	JB05 0.3-0.4	Aug 29, 2020		Soil	S20-Se07178								X																				
148	JB05 1-1.1	Aug 29, 2020		Soil	S20-Se07179								X																				
149	JB04 0-0.1	Aug 29, 2020		Soil	S20-Se07180								X																				
150	JB04 0.5-0.6	Aug 29, 2020		Soil	S20-Se07181								X																				
151	JB04 1-1.1	Aug 29, 2020		Soil	S20-Se07182								X																				
152	JB82 0.3-0.4	Aug 29, 2020		Soil	S20-Se07183								X																				
153	JB82 0.5-0.6	Aug 29, 2020		Soil	S20-Se07184								X																				
154	JB83 0.3-0.4	Aug 29, 2020		Soil	S20-Se07185								X																				
155	JB83 1-1.1	Aug 29, 2020		Soil	S20-Se07186								X																				
156	JB83 2-2.1	Aug 29, 2020		Soil	S20-Se07187								X																				
157	JB32 0.5-0.8	Aug 30, 2020		Soil	S20-Se07188								X																				
158	JB32 1.4-1.5	Aug 30, 2020		Soil	S20-Se07189								X																				
159	JB32 1.6-1.8	Aug 30, 2020		Soil	S20-Se07190								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
160	JB32 2.6-2.7	Aug 30, 2020		Soil	S20-Se07191								X																				
161	JB32 3-3.1	Aug 30, 2020		Soil	S20-Se07192								X																				
162	JB32 4-4.1	Aug 30, 2020		Soil	S20-Se07193								X																				
163	JB40 0.9-1	Aug 30, 2020		Soil	S20-Se07194								X																				
164	JB40 2.8-3	Aug 30, 2020		Soil	S20-Se07195								X																				
165	JB40 3.9-4	Aug 30, 2020		Soil	S20-Se07196								X																				
166	JB24 0.4-0.5	Aug 30, 2020		Soil	S20-Se07197								X																				
167	JB24 1-1.1	Aug 30, 2020		Soil	S20-Se07198								X																				
168	JB24 3.4-3.5	Aug 30, 2020		Soil	S20-Se07199								X																				
169	JB24 5-5.1	Aug 30, 2020		Soil	S20-Se07200								X																				
170	JB85 0.05-0.3	Aug 30, 2020		Soil	S20-Se07201								X																				
171	JB85 0.3-0.5	Aug 30, 2020		Soil	S20-Se07202								X																				
172	JB85 1-1.1	Aug 30, 2020		Soil	S20-Se07203								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
173	JB85 1.2-1.4	Aug 30, 2020		Soil	S20-Se07204								X																				
174	JB85 1.6-2.2	Aug 30, 2020		Soil	S20-Se07205								X																				
175	JB85 2.6-2.8	Aug 30, 2020		Soil	S20-Se07206								X																				
176	JB85 2.5-2.8	Aug 30, 2020		Soil	S20-Se07207								X																				
177	JB85 3.4-3.5	Aug 30, 2020		Soil	S20-Se07208								X																				
178	JB81 0.1-0.2	Aug 29, 2020		Soil	S20-Se07209								X																				
179	JB81 2-2.1	Aug 29, 2020		Soil	S20-Se07210								X																				
180	JB81 3-3.1	Aug 29, 2020		Soil	S20-Se07211								X																				
181	JB81 4.6-4.7	Aug 29, 2020		Soil	S20-Se07212								X																				
182	JB66 0-0.1	Aug 29, 2020		Soil	S20-Se07213								X																				
183	JB66 1-1.1	Aug 29, 2020		Soil	S20-Se07214								X																				
184	JB66 3-3.1	Aug 29, 2020		Soil	S20-Se07215								X																				
185	JB66 5-5.1	Aug 29, 2020		Soil	S20-Se07216								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
186	JB66 6-6.1	Aug 29, 2020		Soil	S20-Se07217								X																				
187	JB66 7-7.1	Aug 29, 2020		Soil	S20-Se07218								X																				
188	JB48 0.4-0.5	Aug 29, 2020		Soil	S20-Se07219								X																				
189	JB48 1.9-2	Aug 29, 2020		Soil	S20-Se07220								X																				
190	JB48 4-4.1	Aug 29, 2020		Soil	S20-Se07221								X																				
191	JB17a 0-0.1	Aug 30, 2020		Soil	S20-Se07689			X										X	X							X							
192	JB17a 1-1.1	Aug 30, 2020		Soil	S20-Se07690													X	X					X		X							
193	JB17a 0.3-0.4	Aug 30, 2020		Soil	S20-Se07691								X																				
194	JB17a 0.5-0.6	Aug 30, 2020		Soil	S20-Se07692								X																				
195	JB17a 1.5-1.6	Aug 30, 2020		Soil	S20-Se07693								X																				
196	JB48 5.5-5.6	Aug 29, 2020		Soil	S20-Se08028								X																				
197	UNLABELLED JAR	Aug 29, 2020		Soil	S20-Se08029								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X	X		X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
198	UNLABELLED BAG	Aug 29, 2020		Soil	S20-Se08030								X																				
Test Counts						16	16	59	2	1	16	16	107	16	16	16	16	21	24	1	33	33	25	25	80	80	12	53	53	1	1	16	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Aluminium	mg/kg	< 10			10	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Cyanide (free)	mg/kg	< 1			1	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.5	Pass	
Aroclor-1242	mg/kg	< 0.1			0.5	Pass	
Aroclor-1248	mg/kg	< 0.1			0.5	Pass	
Aroclor-1254	mg/kg	< 0.1			0.5	Pass	
Aroclor-1260	mg/kg	< 0.1			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
1-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
1-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 0.5			0.5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2-Picoline	mg/kg	< 0.5			0.5	Pass	
2.3.4.6-Tetrachlorophenol	mg/kg	< 5			5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2.4-Dinitrotoluene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.6-Dinitrotoluene	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
3.3'-Dichlorobenzidine	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
4.4'-DDD	mg/kg	< 0.5			0.5	Pass	
4.4'-DDE	mg/kg	< 0.5			0.5	Pass	
4.4'-DDT	mg/kg	< 0.5			0.5	Pass	
7.12-Dimethylbenz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
a-BHC	mg/kg	< 0.5			0.5	Pass	
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
b-BHC	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzyl chloride	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroisopropyl)ether	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 0.5			0.5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.j)acridine	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethylaminoazobenzene	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Endosulfan I	mg/kg	< 0.5			0.5	Pass	
Endosulfan II	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 0.5			0.5	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Pronamide	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Trifluralin	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	103			80-120	Pass	
Arsenic	%	105			80-120	Pass	
Arsenic	%	106			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	106			80-120	Pass	
Chromium	%	104			80-120	Pass	
Copper	%	103			80-120	Pass	
Copper	%	102			80-120	Pass	
Iron	%	108			80-120	Pass	
Lead	%	105			80-120	Pass	
Lead	%	101			80-120	Pass	
Manganese	%	103			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	103			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	100			80-120	Pass	
Zinc	%	98			80-120	Pass	
LCS - % Recovery							
Cyanide (free)	%	76			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	108			70-130	Pass	
m&p-Xylenes	%	117			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	%	119			70-130	Pass	
Xylenes - Total*	%	118			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	109			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	82			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	96			70-130	Pass	
Acenaphthylene	%	89			70-130	Pass	
Anthracene	%	102			70-130	Pass	
Benz(a)anthracene	%	70			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	108			70-130	Pass	
Benzo(g.h.i)perylene	%	114			70-130	Pass	
Benzo(k)fluoranthene	%	118			70-130	Pass	
Chrysene	%	70			70-130	Pass	
Dibenz(a.h)anthracene	%	116			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	102			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	115			70-130	Pass	
Naphthalene	%	85			70-130	Pass	
Phenanthrene	%	93			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	82			70-130	Pass	
4.4'-DDD	%	73			70-130	Pass	
4.4'-DDE	%	72			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-BHC	%	71			70-130	Pass	
Aldrin	%	72			70-130	Pass	
b-BHC	%	70			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	71			70-130	Pass	
Endosulfan I	%	73			70-130	Pass	
Endosulfan II	%	90			70-130	Pass	
Endosulfan sulphate	%	72			70-130	Pass	
Endrin	%	70			70-130	Pass	
Endrin aldehyde	%	71			70-130	Pass	
Endrin ketone	%	84			70-130	Pass	
g-BHC (Lindane)	%	71			70-130	Pass	
Heptachlor	%	79			70-130	Pass	
Heptachlor epoxide	%	75			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	75			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	84			70-130	Pass	
Aroclor-1260	%	126			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	102			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanoic acid (PFPeA)	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	125			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	107			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	108			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	124			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	131			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	115			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	104			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	129			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	103			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	87			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	124			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	128			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	101			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	103			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	97			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	106			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	80			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	110			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	100			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	95			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	104			50-150	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	108			70-130	Pass	
1.1.1-Trichloroethane	%	94			70-130	Pass	
1.2-Dichlorobenzene	%	98			70-130	Pass	
1.2-Dichloroethane	%	99			70-130	Pass	
Benzene	%	104			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Toluene	%	107			70-130	Pass	
Trichloroethene	%	95			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	%	106			30-130	Pass	
2-Chlorophenol	%	93			30-130	Pass	
2-Methylphenol (o-Cresol)	%	98			30-130	Pass	
2-Nitrophenol	%	67			30-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-Dichlorophenol	%	82			30-130	Pass	
2.4-Dimethylphenol	%	80			30-130	Pass	
2.4-Dinitrophenol	%	89			30-130	Pass	
2.4.5-Trichlorophenol	%	88			30-130	Pass	
2.4.6-Trichlorophenol	%	59			30-130	Pass	
2.6-Dichlorophenol	%	84			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	97			30-130	Pass	
4-Chloro-3-methylphenol	%	106			30-130	Pass	
4-Nitrophenol	%	78			30-130	Pass	
Acenaphthene	%	73			70-130	Pass	
Acenaphthylene	%	73			70-130	Pass	
Anthracene	%	71			70-130	Pass	
Benz(a)anthracene	%	113			70-130	Pass	
Benzo(a)pyrene	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	%	70			70-130	Pass	
Benzo(g.h.i)perylene	%	79			70-130	Pass	
Benzo(k)fluoranthene	%	89			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	75			70-130	Pass	
Fluoranthene	%	71			70-130	Pass	
Fluorene	%	80			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	76			70-130	Pass	
Naphthalene	%	80			70-130	Pass	
Pentachlorophenol	%	87			30-130	Pass	
Phenanthrene	%	72			70-130	Pass	
Phenol	%	89			30-130	Pass	
Pyrene	%	77			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se10404	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S20-Se10404	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Fluoranthene	S20-Se12356	NCP	%	90			70-130	Pass	
Phenanthrene	S20-Se12356	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin	S20-Se12356	NCP	%	72			70-130	Pass	
g-BHC (Lindane)	S20-Se12356	NCP	%	77			70-130	Pass	
Methoxychlor	S20-Se12356	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se07038	CP	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07038	CP	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07038	CP	%	127			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07038	CP	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07038	CP	%	105			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07038	CP	%	125			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07038	CP	%	94			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	S20-Se07038	CP	%	95			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07038	CP	%	130			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07038	CP	%	111			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07038	CP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se07038	CP	%	125			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07038	CP	%	105			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07038	CP	%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07038	CP	%	110			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07038	CP	%	119			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07038	CP	%	106			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07038	CP	%	105			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se07038	CP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07038	CP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07038	CP	%	120			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07038	CP	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07038	CP	%	106			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07038	CP	%	98			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07038	CP	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07038	CP	%	94			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07038	CP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07038	CP	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07038	CP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07038	CP	%	106			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Manganese	S20-Se14841	NCP	%	96			75-125	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (free)	S20-Se07039	CP	%	72			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S20-Se07042	CP	%	95			75-125	Pass	
Cadmium	S20-Se07042	CP	%	93			75-125	Pass	
Chromium	S20-Se07042	CP	%	88			75-125	Pass	
Copper	S20-Se07042	CP	%	85			75-125	Pass	
Lead	S20-Se07042	CP	%	93			75-125	Pass	
Mercury	S20-Se07042	CP	%	104			75-125	Pass	
Nickel	S20-Se07042	CP	%	76			75-125	Pass	
Zinc	S20-Se07042	CP	%	90			75-125	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se07048	CP	%	84			70-130	Pass	
Toluene	S20-Se07048	CP	%	79			70-130	Pass	
Ethylbenzene	S20-Se07048	CP	%	85			70-130	Pass	
m&p-Xylenes	S20-Se07048	CP	%	94			70-130	Pass	
o-Xylene	S20-Se07048	CP	%	95			70-130	Pass	
Xylenes - Total*	S20-Se07048	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se07048	CP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se07054	CP	%	118			75-125	Pass	
Cadmium	S20-Se07054	CP	%	118			75-125	Pass	
Chromium	S20-Se07054	CP	%	96			75-125	Pass	
Copper	S20-Se07054	CP	%	104			75-125	Pass	
Lead	S20-Se07054	CP	%	107			75-125	Pass	
Mercury	S20-Se07054	CP	%	111			75-125	Pass	
Nickel	S20-Se07054	CP	%	86			75-125	Pass	
Zinc	S20-Se07054	CP	%	83			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se07055	CP	%	75			70-130	Pass	
Acenaphthylene	S20-Se07055	CP	%	76			70-130	Pass	
Anthracene	S20-Se07055	CP	%	73			70-130	Pass	
Benz(a)anthracene	S20-Se07055	CP	%	77			70-130	Pass	
Benzo(a)pyrene	S20-Se07055	CP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se07055	CP	%	81			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se07055	CP	%	81			70-130	Pass	
Benzo(k)fluoranthene	S20-Se07055	CP	%	90			70-130	Pass	
Chrysene	S20-Se07055	CP	%	75			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se07055	CP	%	80			70-130	Pass	
Fluorene	S20-Se07055	CP	%	83			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se07055	CP	%	73			70-130	Pass	
Naphthalene	S20-Se07055	CP	%	85			70-130	Pass	
Pyrene	S20-Se07055	CP	%	70			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se07055	CP	%	98			70-130	Pass	
4.4'-DDD	S20-Se07055	CP	%	71			70-130	Pass	
4.4'-DDE	S20-Se07055	CP	%	71			70-130	Pass	
4.4'-DDT	S20-Se07055	CP	%	77			70-130	Pass	
a-BHC	S20-Se07055	CP	%	74			70-130	Pass	
Aldrin	S20-Se07055	CP	%	70			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	S20-Se07055	CP	%	71			70-130	Pass	
Endosulfan sulphate	S20-Se07055	CP	%	76			70-130	Pass	
Endrin ketone	S20-Se07055	CP	%	86			70-130	Pass	
Heptachlor	S20-Se07055	CP	%	78			70-130	Pass	
Heptachlor epoxide	S20-Se07055	CP	%	83			70-130	Pass	
Hexachlorobenzene	S20-Se07055	CP	%	81			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-Se07055	CP	%	77			70-130	Pass	
Aroclor-1260	S20-Se07055	CP	%	126			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Aluminium	S20-Se05100	NCP	%	86			75-125	Pass	
Iron	S20-Se06735	NCP	%	125			75-125	Pass	
Spike - % Recovery									
Semivolatile Organics				Result 1					
1.2.4-Trichlorobenzene	S20-Au48170	NCP	%	96			70-130	Pass	
1.4-Dichlorobenzene	S20-Au48170	NCP	%	71			70-130	Pass	
2-Chlorophenol	S20-Au48170	NCP	%	66			30-130	Pass	
2.4-Dinitrotoluene	S20-Au48170	NCP	%	77			70-130	Pass	
4-Chloro-3-methylphenol	S20-Au48170	NCP	%	70			30-130	Pass	
4-Nitrophenol	S20-Au48170	NCP	%	47			30-130	Pass	
N-Nitrosodipropylamine	S20-Au48170	NCP	%	105			70-130	Pass	
Pentachlorophenol	S20-Au48170	NCP	%	42			30-130	Pass	
Phenol	S20-Au48170	NCP	%	56			30-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
b-BHC	S20-Se00896	NCP	%	83			70-130	Pass	
d-BHC	S20-Se00896	NCP	%	89			70-130	Pass	
Dieldrin	S20-Se00896	NCP	%	89			70-130	Pass	
Endosulfan II	S20-Se00896	NCP	%	74			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se07070	CP	%	91			70-130	Pass	
Toluene	S20-Se07070	CP	%	85			70-130	Pass	
Ethylbenzene	S20-Se07070	CP	%	89			70-130	Pass	
m&p-Xylenes	S20-Se07070	CP	%	97			70-130	Pass	
o-Xylene	S20-Se07070	CP	%	100			70-130	Pass	
Xylenes - Total*	S20-Se07070	CP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se07070	CP	%	71			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se07074	CP	%	103			75-125	Pass	
Cadmium	S20-Se07074	CP	%	103			75-125	Pass	
Chromium	S20-Se07074	CP	%	98			75-125	Pass	
Copper	S20-Se07074	CP	%	110			75-125	Pass	
Lead	S20-Se07074	CP	%	99			75-125	Pass	
Mercury	S20-Se07074	CP	%	113			75-125	Pass	
Nickel	S20-Se07074	CP	%	102			75-125	Pass	
Zinc	S20-Se07074	CP	%	109			75-125	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S20-Se07084	CP	%	81			70-130	Pass	
Toluene	S20-Se07084	CP	%	77			70-130	Pass	
Ethylbenzene	S20-Se07084	CP	%	82			70-130	Pass	
m&p-Xylenes	S20-Se07084	CP	%	92			70-130	Pass	
o-Xylene	S20-Se07084	CP	%	93			70-130	Pass	
Xylenes - Total*	S20-Se07084	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se07084	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Se07086	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Se07086	CP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S20-Se08652	NCP	%	113			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se07098	CP	%	116			75-125	Pass	
Cadmium	S20-Se07098	CP	%	112			75-125	Pass	
Chromium	S20-Se07098	CP	%	110			75-125	Pass	
Copper	S20-Se07098	CP	%	102			75-125	Pass	
Lead	S20-Se07098	CP	%	114			75-125	Pass	
Mercury	S20-Se07098	CP	%	113			75-125	Pass	
Nickel	S20-Se07098	CP	%	112			75-125	Pass	
Zinc	S20-Se07098	CP	%	111			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se07098	CP	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07098	CP	%	101			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07098	CP	%	127			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07098	CP	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07098	CP	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07098	CP	%	120			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07098	CP	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07098	CP	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07098	CP	%	125			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07098	CP	%	110			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07098	CP	%	96			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se07098	CP	%	118			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07098	CP	%	93			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07098	CP	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07098	CP	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07098	CP	%	125			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07098	CP	%	100			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07098	CP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se07098	CP	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07098	CP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07098	CP	%	104			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07098	CP	%	74			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07098	CP	%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07098	CP	%	103			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07098	CP	%	94			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07098	CP	%	92			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07098	CP	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07098	CP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07098	CP	%	113			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07098	CP	%	102			50-150	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (free)	S20-Se07115	CP	%	105			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se07115	CP	%	82			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07115	CP	%	78			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07115	CP	%	95			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07115	CP	%	78			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07115	CP	%	75			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07115	CP	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07115	CP	%	66			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07115	CP	%	74			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07115	CP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07115	CP	%	111			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07115	CP	%	115			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se07115	CP	%	80			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07115	CP	%	73			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07115	CP	%	70			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07115	CP	%	76			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07115	CP	%	81			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07115	CP	%	74			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07115	CP	%	73			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se07115	CP	%	72			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07115	CP	%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07115	CP	%	91			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07115	CP	%	69			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07115	CP	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07115	CP	%	69			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07115	CP	%	71			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07115	CP	%	77			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07115	CP	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07115	CP	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07115	CP	%	79			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07115	CP	%	74			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S20-Au43569	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorododecanoic acid (PFDoDA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07033	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07033	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07033	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07033	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07037	CP	%	10.0	9.0	10	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (free)	S20-Se07039	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07040	CP	mg/kg	11000	10000	2.0	30%	Pass	
Arsenic	S20-Se07040	CP	mg/kg	7.9	9.3	17	30%	Pass	
Cadmium	S20-Se07040	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07040	CP	mg/kg	12	13	7.0	30%	Pass	
Copper	S20-Se07040	CP	mg/kg	37	43	15	30%	Pass	
Lead	S20-Se07040	CP	mg/kg	18	20	11	30%	Pass	
Manganese	S20-Se07040	CP	mg/kg	500	610	21	30%	Pass	
Mercury	S20-Se07040	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07040	CP	mg/kg	23	24	3.0	30%	Pass	
Zinc	S20-Se07040	CP	mg/kg	74	77	4.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se07045	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se07045	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se07045	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se07045	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se07045	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se07045	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se07045	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se07045	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Carbon Tetrachloride	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Se07045	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07048	CP	%	14	13	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se07050	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se07050	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan sulphate	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se07050	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se07050	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07053	CP	mg/kg	14000	15000	5.0	30%	Pass	
Arsenic	S20-Se07053	CP	mg/kg	7.5	5.3	36	30%	Fail	Q15
Cadmium	S20-Se07053	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07053	CP	mg/kg	53	43	20	30%	Pass	
Copper	S20-Se07053	CP	mg/kg	35	34	2.0	30%	Pass	
Lead	S20-Se07053	CP	mg/kg	19	17	10	30%	Pass	
Manganese	S20-Se07053	CP	mg/kg	1200	1000	15	30%	Pass	
Mercury	S20-Se07053	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07053	CP	mg/kg	45	46	1.0	30%	Pass	
Zinc	S20-Se07053	CP	mg/kg	97	85	14	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	M20-Se10382	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
1-Chloronaphthalene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1-Naphthylamine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chloronaphthalene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorophenol	M20-Se10382	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylnaphthalene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M20-Se10382	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Naphthylamine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Nitroaniline	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Nitrophenol	M20-Se10382	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Picoline	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	S20-Au48169	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dichlorophenol	M20-Se10382	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dimethylphenol	M20-Se10382	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M20-Se10382	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dinitrotoluene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M20-Se10382	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M20-Se10382	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M20-Se10382	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.6-Dinitrotoluene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M20-Se10382	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
3-Methylcholanthrene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
3.3'-Dichlorobenzidine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Aminobiphenyl	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Bromophenyl phenyl ether	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M20-Se10382	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chlorophenyl phenyl ether	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Nitrophenol	M20-Se10382	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
4.4'-DDD	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-BHC	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acetophenone	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aniline	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-BHC	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzyl chloride	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroethoxy)methane	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Butyl benzyl phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-BHC	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-butyl phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-octyl phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.j)acridine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenzofuran	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diethyl phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethyl phthalate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethylaminoazobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diphenylamine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-BHC (Lindane)	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachloroethane	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodibutylamine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	M20-Se10382	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	M20-Se10382	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pronamide	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trifluralin	S20-Au48169	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07059	CP	%	19	18	5.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se07059	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07063	CP	mg/kg	11000	12000	8.0	30%	Pass	
Arsenic	S20-Se07063	CP	mg/kg	2.9	3.1	4.0	30%	Pass	
Cadmium	S20-Se07063	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07063	CP	mg/kg	36	43	20	30%	Pass	
Copper	S20-Se07063	CP	mg/kg	58	60	4.0	30%	Pass	
Iron	S20-Se07063	CP	mg/kg	23000	26000	13	30%	Pass	
Lead	S20-Se07063	CP	mg/kg	12	12	<1	30%	Pass	
Manganese	S20-Se07063	CP	mg/kg	510	590	14	30%	Pass	
Mercury	S20-Se07063	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07063	CP	mg/kg	51	64	21	30%	Pass	
Zinc	S20-Se07063	CP	mg/kg	100	110	5.0	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se14821	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se14821	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07069	CP	%	10.0	9.5	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07079	CP	%	14	11	21	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07083	CP	mg/kg	5500	7100	26	30%	Pass	
Arsenic	S20-Se07083	CP	mg/kg	4.6	5.8	22	30%	Pass	
Cadmium	S20-Se07083	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07083	CP	mg/kg	7.0	10	36	30%	Fail	Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Copper	S20-Se07083	CP	mg/kg	34	36	6.0	30%	Pass	
Lead	S20-Se07083	CP	mg/kg	17	15	7.0	30%	Pass	
Manganese	S20-Se07083	CP	mg/kg	330	520	45	30%	Fail	Q15
Mercury	S20-Se07083	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07083	CP	mg/kg	16	17	9.0	30%	Pass	
Zinc	S20-Se07083	CP	mg/kg	54	55	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Se07084	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se07084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Se07084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Se07084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se07084	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Se07084	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se07084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07085	CP	%	11	16	37	30%	Fail	Q15
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07089	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07089	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07089	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07089	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07091	CP	%	8.7	7.3	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se07093	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se07093	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se07093	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se07093	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se07093	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se07093	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se07093	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se07093	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se07093	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07097	CP	mg/kg	13000	10000	18	30%	Pass	
Arsenic	S20-Se07097	CP	mg/kg	4.5	4.0	13	30%	Pass	
Cadmium	S20-Se07097	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07097	CP	mg/kg	45	37	20	30%	Pass	
Copper	S20-Se07097	CP	mg/kg	33	29	15	30%	Pass	
Lead	S20-Se07097	CP	mg/kg	12	12	1.0	30%	Pass	
Manganese	S20-Se07097	CP	mg/kg	1700	1200	32	30%	Fail	Q15
Mercury	S20-Se07097	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07097	CP	mg/kg	50	44	13	30%	Pass	
Zinc	S20-Se07097	CP	mg/kg	69	67	4.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07098	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07098	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07098	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07102	CP	%	23	22	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se07107	CP	mg/kg	9700	7800	21	30%	Pass	
Arsenic	S20-Se07107	CP	mg/kg	7.0	17	83	30%	Fail	Q15
Cadmium	S20-Se07107	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se07107	CP	mg/kg	12	10	16	30%	Pass	
Copper	S20-Se07107	CP	mg/kg	37	48	27	30%	Pass	
Lead	S20-Se07107	CP	mg/kg	16	22	34	30%	Fail	Q15
Manganese	S20-Se07107	CP	mg/kg	500	450	12	30%	Pass	
Mercury	S20-Se07107	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se07107	CP	mg/kg	22	21	5.0	30%	Pass	
Zinc	S20-Se07107	CP	mg/kg	69	89	25	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07114	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07114	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07114	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07114	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (free)	S20-Se07115	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se07118	CP	%	12	14	18	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742039-W**
Project name PLE
Project ID 58238
Received Date Sep 03, 2020

Client Sample ID			**RIN01**	**TS**	**TB**	**FIELD BLANK**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se07110**	**S20-Se07111**	**S20-Se07112**	**S20-Se07113**
Date Sampled			**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	-	-	-
TRH C10-C14	0.05	mg/L	< 0.05	-	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	-	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	137	-	83	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.001	mg/L	< 0.001	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	< 0.001	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
4-Bromofluorobenzene (surr.)	1	%	137	-	-	-
Toluene-d8 (surr.)	1	%	124	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	-	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	-	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-	-	-

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	59	-	-	-
p-Terphenyl-d14 (surr.)	1	%	92	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.001	mg/L	< 0.001	-	-	-
4.4'-DDD	0.0001	mg/L	< 0.0001	-	-	-
4.4'-DDE	0.0001	mg/L	< 0.0001	-	-	-
4.4'-DDT	0.0001	mg/L	< 0.0001	-	-	-
a-BHC	0.0001	mg/L	< 0.0001	-	-	-
Aldrin	0.0001	mg/L	< 0.0001	-	-	-
b-BHC	0.0001	mg/L	< 0.0001	-	-	-
d-BHC	0.0001	mg/L	< 0.0001	-	-	-
Dieldrin	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan I	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan II	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan sulphate	0.0001	mg/L	< 0.0001	-	-	-
Endrin	0.0001	mg/L	< 0.0001	-	-	-
Endrin aldehyde	0.0001	mg/L	< 0.0001	-	-	-
Endrin ketone	0.0001	mg/L	< 0.0001	-	-	-
g-BHC (Lindane)	0.0001	mg/L	< 0.0001	-	-	-
Heptachlor	0.0001	mg/L	< 0.0001	-	-	-
Heptachlor epoxide	0.0001	mg/L	< 0.0001	-	-	-
Hexachlorobenzene	0.0001	mg/L	< 0.0001	-	-	-
Methoxychlor	0.0001	mg/L	< 0.0001	-	-	-
Toxaphene	0.01	mg/L	< 0.01	-	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	< 0.0001	-	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	< 0.0001	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	< 0.001	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	< 0.001	-	-	-
Dibutylchlorendate (surr.)	1	%	54	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	56	-	-	-

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.001	mg/L	< 0.001	-	-	-
Aroclor-1221	0.001	mg/L	< 0.001	-	-	-
Aroclor-1232	0.001	mg/L	< 0.001	-	-	-
Aroclor-1242	0.001	mg/L	< 0.001	-	-	-
Aroclor-1248	0.001	mg/L	< 0.001	-	-	-
Aroclor-1254	0.001	mg/L	< 0.001	-	-	-
Aroclor-1260	0.001	mg/L	< 0.001	-	-	-
Total PCB*	0.001	mg/L	< 0.001	-	-	-
Dibutylchlorendate (surr.)	1	%	54	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	56	-	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	-	-	-
1-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
1-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
1.2-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.4-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3.5-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.4-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
2-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Chlorophenol	0.003	mg/L	< 0.003	-	-	-
2-Methylnaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	-	-	-
2-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
2-Nitroaniline	0.005	mg/L	< 0.005	-	-	-
2-Nitrophenol	0.01	mg/L	< 0.01	-	-	-
2-Picoline	0.005	mg/L	< 0.005	-	-	-
2.3.4.6-Tetrachlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dimethylphenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dinitrophenol	0.03	mg/L	< 0.03	-	-	-
2.4-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.6-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.6-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	-	-	-
3-Methylcholanthrene	0.005	mg/L	< 0.005	-	-	-
3.3'-Dichlorobenzidine	0.005	mg/L	< 0.005	-	-	-
4-Aminobiphenyl	0.005	mg/L	< 0.005	-	-	-
4-Bromophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	-	-	-
4-Chlorophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Nitrophenol	0.03	mg/L	< 0.03	-	-	-
4.4'-DDD	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
4.4'-DDE	0.005	mg/L	< 0.005	-	-	-
4.4'-DDT	0.005	mg/L	< 0.005	-	-	-
7.12-Dimethylbenz(a)anthracene	0.005	mg/L	< 0.005	-	-	-
a-BHC	0.005	mg/L	< 0.005	-	-	-
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Acetophenone	0.005	mg/L	< 0.005	-	-	-
Aldrin	0.005	mg/L	< 0.005	-	-	-
Aniline	0.005	mg/L	< 0.005	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
b-BHC	0.005	mg/L	< 0.005	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Benzyl chloride	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroethoxy)methane	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroisopropyl)ether	0.005	mg/L	< 0.005	-	-	-
Bis(2-ethylhexyl)phthalate	0.005	mg/L	< 0.005	-	-	-
Butyl benzyl phthalate	0.005	mg/L	< 0.005	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
d-BHC	0.005	mg/L	< 0.005	-	-	-
Di-n-butyl phthalate	0.005	mg/L	< 0.005	-	-	-
Di-n-octyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.j)acridine	0.005	mg/L	< 0.005	-	-	-
Dibenzofuran	0.005	mg/L	< 0.005	-	-	-
Dieldrin	0.005	mg/L	< 0.005	-	-	-
Diethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethylaminoazobenzene	0.005	mg/L	< 0.005	-	-	-
Diphenylamine	0.005	mg/L	< 0.005	-	-	-
Endosulfan I	0.005	mg/L	< 0.005	-	-	-
Endosulfan II	0.005	mg/L	< 0.005	-	-	-
Endosulfan sulphate	0.005	mg/L	< 0.005	-	-	-
Endrin	0.005	mg/L	< 0.005	-	-	-
Endrin aldehyde	0.005	mg/L	< 0.005	-	-	-
Endrin ketone	0.005	mg/L	< 0.005	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
g-BHC (Lindane)	0.005	mg/L	< 0.005	-	-	-
Heptachlor	0.005	mg/L	< 0.005	-	-	-
Heptachlor epoxide	0.005	mg/L	< 0.005	-	-	-
Hexachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Hexachlorobutadiene	0.005	mg/L	< 0.005	-	-	-
Hexachlorocyclopentadiene	0.005	mg/L	< 0.005	-	-	-
Hexachloroethane	0.005	mg/L	< 0.005	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Methoxychlor	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodibutylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodipropylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosopiperidine	0.005	mg/L	< 0.005	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Nitrobenzene	0.05	mg/L	< 0.05	-	-	-
Pentachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachloronitrobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachlorophenol	0.01	mg/L	< 0.01	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Phenol	0.003	mg/L	< 0.003	-	-	-
Pronamide	0.005	mg/L	< 0.005	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Trifluralin	0.005	mg/L	< 0.005	-	-	-
Phenol-d6 (surr.)	1	%	34	-	-	-
Nitrobenzene-d5 (surr.)	1	%	59	-	-	-
2-Fluorobiphenyl (surr.)	1	%	59	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	44	-	-	-
Cyanide (free)	0.005	mg/L	< 0.005	-	-	-
Heavy Metals						
Aluminium	0.05	mg/L	< 0.05	-	-	-
Arsenic	0.001	mg/L	< 0.001	-	-	-
Cadmium	0.0002	mg/L	< 0.0002	-	-	-
Chromium	0.001	mg/L	< 0.001	-	-	-
Copper	0.001	mg/L	< 0.001	-	-	-
Iron	0.05	mg/L	< 0.05	-	-	-
Lead	0.001	mg/L	< 0.001	-	-	-
Manganese	0.005	mg/L	< 0.005	-	-	-
Mercury	0.0001	mg/L	< 0.0001	-	-	-
Nickel	0.001	mg/L	< 0.001	-	-	-
Zinc	0.005	mg/L	< 0.005	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
13C4-PFBA (surr.)	1	%	65	-	-	95
13C5-PFPeA (surr.)	1	%	72	-	-	101
13C5-PFHxA (surr.)	1	%	73	-	-	98
13C4-PFHpA (surr.)	1	%	73	-	-	101
13C8-PFOA (surr.)	1	%	93	-	-	136

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	71	-	-	97
13C6-PFDA (surr.)	1	%	73	-	-	99
13C2-PFUnDA (surr.)	1	%	69	-	-	97
13C2-PFDoDA (surr.)	1	%	56	-	-	80
13C2-PFTeDA (surr.)	1	%	58	-	-	85
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
13C8-FOSA (surr.)	1	%	58	-	-	78
D3-N-MeFOSA (surr.)	1	%	96	-	-	128
D5-N-EtFOSA (surr.)	1	%	96	-	-	124
D7-N-MeFOSE (surr.)	1	%	67	-	-	88
D9-N-EtFOSE (surr.)	1	%	68	-	-	88
D5-N-EtFOSAA (surr.)	1	%	37	-	-	34
D3-N-MeFOSAA (surr.)	1	%	40	-	-	39
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.02	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	-	-	< 0.01
13C3-PFBS (surr.)	1	%	73	-	-	102
18O2-PFHxS (surr.)	1	%	74	-	-	99
13C8-PFOS (surr.)	1	%	70	-	-	96
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	47	-	-	66
13C2-6:2 FTSA (surr.)	1	%	72	-	-	40
13C2-8:2 FTSA (surr.)	1	%	55	-	-	55
13C2-10:2 FTSA (surr.)	1	%	45	-	-	56

Client Sample ID			RIN01	TS	TB	FIELD BLANK
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se07110	S20-Se07111	S20-Se07112	S20-Se07113
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.02	-	-	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.02	-	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.02	-	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-	-	< 0.1
BTEX						
Benzene	1	%	-	96	-	-
Ethylbenzene	1	%	-	84	-	-
m&p-Xylenes	1	%	-	86	-	-
o-Xylene	1	%	-	75	-	-
Toluene	1	%	-	91	-	-
Xylenes - Total	1	%	-	79	-	-
4-Bromofluorobenzene (surr.)	1	%	-	68	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B5			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Sep 07, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 07, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Semivolatile Organics	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2190 SVOC in Water & Soil by GC-MS			
Cyanide (free)	Melbourne	Sep 07, 2020	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Heavy Metals	Melbourne	Sep 07, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polycyclic Aromatic Hydrocarbons	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Sep 07, 2020	180 Days
- Method:			
Organochlorine Pesticides	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 07, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 07, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 07, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 07, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271	X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217		X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																				X	X						X	
Perth Laboratory - NATA Site # 23736																												
Newcastle Laboratory																												
External Laboratory																												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																								
1	JB58 0-0.1	Aug 30, 2020		Soil	S20-Se07032			X											X					X					
2	JB58 0.3-0.4	Aug 30, 2020		Soil	S20-Se07033			X												X					X			X		
3	JB58 3-3.1	Aug 30, 2020		Soil	S20-Se07034			X										X	X					X						
4	JB60 0-0.1	Aug 30, 2020		Soil	S20-Se07035			X												X					X					
5	JB87 0.3-0.4	Aug 30, 2020		Soil	S20-Se07036			X												X					X					
6	JB87 1-1.1	Aug 30, 2020		Soil	S20-Se07037			X											X						X					
7	JB87 2-2.1	Aug 30, 2020		Soil	S20-Se07038			X												X					X			X		
8	JB53 0.3-0.4	Aug 30, 2020		Soil	S20-Se07039		X	X				X			X					X		X			X					
9	JB53 2-2.1	Aug 30, 2020		Soil	S20-Se07040			X																	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
10	JB53 3-3.1	Aug 30, 2020		Soil	S20-Se07041			X																									
11	JB88 0-0.1	Aug 30, 2020		Soil	S20-Se07042			X										X	X						X								
12	JB88 0.5-0.6	Aug 30, 2020		Soil	S20-Se07043																			X		X								
13	JB88 3-3.1	Aug 30, 2020		Soil	S20-Se07044			X										X	X							X								
14	JB86 0.3-0.4	Aug 30, 2020		Soil	S20-Se07045		X	X				X			X		X					X		X		X			X				X	
15	JB86 2-2.1	Aug 30, 2020		Soil	S20-Se07046			X										X	X			X		X		X								
16	JB86A 0.3-0.4	Aug 30, 2020		Soil	S20-Se07047													X	X							X								
17	JB55 0-0.1	Aug 30, 2020		Soil	S20-Se07048			X														X				X			X				
18	JB55 1-1.1	Aug 30, 2020		Soil	S20-Se07049		X	X				X			X		X					X		X		X			X				X	
19	JB55 3-3.1	Aug 30, 2020		Soil	S20-Se07050													X	X			X				X								
20	JB54 0-0.1	Aug 30, 2020		Soil	S20-Se07051			X																										
21	JB54 0.3-0.4	Aug 30, 2020		Soil	S20-Se07052			X										X	X							X								
22	JB54 1-1.1	Aug 30, 2020		Soil	S20-Se07053													X	X							X							X	

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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
23	JB54 2-2.1	Aug 30, 2020		Soil	S20-Se07054			X																	X			X				
24	JB46 0-0.1	Aug 30, 2020		Soil	S20-Se07055			X														X			X			X				
25	JB46 0.5-0.6	Aug 30, 2020		Soil	S20-Se07056			X														X			X			X				
26	JB84 0-0.1	Aug 29, 2020		Soil	S20-Se07057		X	X				X			X		X					X		X		X	X		X				
27	JB84 1.4-1.5	Aug 29, 2020		Soil	S20-Se07058													X	X							X							
28	JB19-03	Aug 29, 2020		Soil	S20-Se07059			X																	X			X				
29	JB19-05	Aug 29, 2020		Soil	S20-Se07060			X										X	X						X							
30	JB18 0-0.1	Aug 29, 2020		Soil	S20-Se07061			X														X		X	X			X				
31	JB18 0.5-0.6	Aug 29, 2020		Soil	S20-Se07062			X																	X			X				
32	JB17 0-0.1	Aug 29, 2020		Soil	S20-Se07063		X	X				X			X		X					X			X			X				
33	JB17 1-1.1	Aug 29, 2020		Soil	S20-Se07064		X					X			X		X	X	X						X							
34	JB16 0-0.1	Aug 29, 2020		Soil	S20-Se07065													X	X						X							
35	JB16 3-3.1	Aug 29, 2020		Soil	S20-Se07066													X	X						X							

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
36	JB12 0.3-0.4	Aug 29, 2020		Soil	S20-Se07067			X														X		X		X			X			X	
37	JB12 1.1-1.2	Aug 29, 2020		Soil	S20-Se07068			X										X	X							X							
38	JB15 0-0.1	Aug 29, 2020		Soil	S20-Se07069			X														X		X		X			X				
39	JB15 2-2.1	Aug 29, 2020		Soil	S20-Se07070			X																		X			X				
40	JB14 0-0.1	Aug 29, 2020		Soil	S20-Se07071			X										X	X							X							
41	JB11 0-0.1	Aug 29, 2020		Soil	S20-Se07072			X										X	X							X							
42	JB11 1-1.1	Aug 29, 2020		Soil	S20-Se07073			X																X		X			X			X	
43	JB10 0-0.1	Aug 29, 2020		Soil	S20-Se07074			X																		X			X				
44	JB10 0.5-0.6	Aug 29, 2020		Soil	S20-Se07075			X										X	X							X							
45	JB10 2-2.1	Aug 29, 2020		Soil	S20-Se07076			X																X		X			X				
46	JB05 0-0.1	Aug 29, 2020		Soil	S20-Se07077																			X		X	X		X				
47	JB05 0.5-0.6	Aug 29, 2020		Soil	S20-Se07078			X										X	X							X							
48	JB05 2-2.1	Aug 29, 2020		Soil	S20-Se07079																					X					X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
49	JB04 0.2-0.3	Aug 29, 2020		Soil	S20-Se07080			X																		X			X				
50	JB82 0-0.1	Aug 29, 2020		Soil	S20-Se07081			X																		X			X				
51	JB83 0.1-0.2	Aug 29, 2020		Soil	S20-Se07082		X	X				X			X		X					X		X		X	X		X			X	
52	JB83 0.5-0.6	Aug 29, 2020		Soil	S20-Se07083			X																		X			X				
53	JB32 0.05-0.35	Aug 30, 2020		Soil	S20-Se07084																					X			X				
54	JB32 0.4-0.5	Aug 30, 2020		Soil	S20-Se07085																				X							X	
55	JB32 0.9-1.1	Aug 30, 2020		Soil	S20-Se07086																			X		X	X		X				
56	JB32 5-5.1	Aug 30, 2020		Soil	S20-Se07087																					X				X			
57	JB40 0.3-0.5	Aug 30, 2020		Soil	S20-Se07088		X	X				X			X		X					X		X		X	X		X			X	
58	JB40 1.6-1.7	Aug 30, 2020		Soil	S20-Se07089		X					X			X		X					X		X		X	X		X			X	
59	JB40 1.6-2.0	Aug 30, 2020		Soil	S20-Se07090			X																									
60	JB40 7-7.1	Aug 30, 2020		Soil	S20-Se07091																					X			X				

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742039
Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X				X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
61	JB24 0-0.1	Aug 30, 2020		Soil	S20-Se07092			X																	X			X				
62	JB24 2-2.1	Aug 30, 2020		Soil	S20-Se07093																				X			X				
63	JB85 0.5-0.7	Aug 30, 2020		Soil	S20-Se07094																			X	X			X				
64	JB85 0.5-1.0	Aug 30, 2020		Soil	S20-Se07095			X																								
65	JB85 2-2.2	Aug 30, 2020		Soil	S20-Se07096		X					X			X		X					X		X	X	X		X				
66	JB85 4.8-5.0	Aug 30, 2020		Soil	S20-Se07097																				X			X				
67	JB81 0.5-0.6	Aug 29, 2020		Soil	S20-Se07098			X														X			X			X			X	
68	JB81 0.9-1	Aug 29, 2020		Soil	S20-Se07099			X														X			X			X				
69	JB81 1.5-1.6	Aug 29, 2020		Soil	S20-Se07100																	X			X			X				
70	JB81 4-4.1	Aug 29, 2020		Soil	S20-Se07101																				X			X				
71	JB81 5.5-5.6	Aug 29, 2020		Soil	S20-Se07102														X						X							
72	JB66 0.5-0.6	Aug 29, 2020		Soil	S20-Se07103			X														X			X			X				
73	JB66 2-2.1	Aug 29, 2020		Soil	S20-Se07104			X														X			X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
74	JB66 4-4.1	Aug 29, 2020		Soil	S20-Se07105			X														X			X			X				
75	JB48 0.1-0.2	Aug 29, 2020		Soil	S20-Se07106		X	X				X			X		X						X		X			X				
76	JB48 0.9-1	Aug 29, 2020		Soil	S20-Se07107			X										X	X						X							
77	JB53_FRAG	Aug 30, 2020		Building Materials	S20-Se07108				X																								
78	JB54_FRAG	Aug 30, 2020		Building Materials	S20-Se07109				X																								
79	RIN01	Aug 30, 2020		Water	S20-Se07110	X					X			X		X					X		X				X	X				X	
80	TS	Aug 30, 2020		Water	S20-Se07111																												X
81	TB	Aug 30, 2020		Water	S20-Se07112															X													
82	FIELD BLANK	Aug 30, 2020		Water	S20-Se07113																											X	
83	SED01	Aug 29, 2020		Soil	S20-Se07114		X					X			X		X							X		X	X		X			X	
84	QA20200829_MN01	Aug 29, 2020		Soil	S20-Se07115		X	X				X			X		X					X		X		X	X		X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
85	QA20200829_MN02	Aug 29, 2020		Soil	S20-Se07116			X														X				X			X				
86	QA20200829_MN03	Aug 29, 2020		Soil	S20-Se07117		X	X				X			X		X					X		X		X	X		X				
87	QA JB02_0830	Aug 30, 2020		Soil	S20-Se07118		X	X				X			X		X					X		X		X	X		X				
88	QA JB01_0829	Aug 29, 2020		Soil	S20-Se07119			X														X				X			X				
89	JB58 0.5-0.6	Aug 30, 2020		Soil	S20-Se07120								X																				
90	JB58 1-1.1	Aug 30, 2020		Soil	S20-Se07121								X																				
91	JB58 2-2.1	Aug 30, 2020		Soil	S20-Se07122								X																				
92	JB60 0.2-0.3	Aug 30, 2020		Soil	S20-Se07123								X																				
93	JB87 0-0.1	Aug 30, 2020		Soil	S20-Se07124								X																				
94	JB87 0.5-0.6	Aug 30, 2020		Soil	S20-Se07125								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
95	JB87 3-3.1	Aug 30, 2020		Soil	S20-Se07126								X																				
96	JB53 0-0.1	Aug 30, 2020		Soil	S20-Se07127								X																				
97	JB53 0.5-0.6	Aug 30, 2020		Soil	S20-Se07128								X																				
98	JB53 1-1.1	Aug 30, 2020		Soil	S20-Se07129								X																				
99	JB88 0.3-0.4	Aug 30, 2020		Soil	S20-Se07130								X																				
100	JB88 1-1.1	Aug 30, 2020		Soil	S20-Se07131								X																				
101	JB88 2-2.1	Aug 30, 2020		Soil	S20-Se07132								X																				
102	JB86 0-0.1	Aug 30, 2020		Soil	S20-Se07133								X																				
103	JB86 0.5-0.6	Aug 30, 2020		Soil	S20-Se07134								X																				
104	JB86 1-1.1	Aug 30, 2020		Soil	S20-Se07135								X																				
105	JB86 3-3.1	Aug 30, 2020		Soil	S20-Se07136								X																				
106	JB55 0.3-0.4	Aug 30, 2020		Soil	S20-Se07137								X																				
107	JB55 0.5-0.6	Aug 30, 2020		Soil	S20-Se07138								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
108	JB55 2-2.1	Aug 30, 2020		Soil	S20-Se07139								X																				
109	JB54 0.5-0.6	Aug 30, 2020		Soil	S20-Se07140								X																				
110	JB54 3-3.1	Aug 30, 2020		Soil	S20-Se07141					X																							
111	JB46 0.3-0.4	Aug 30, 2020		Soil	S20-Se07142								X																				
112	JB46 1-1.1	Aug 30, 2020		Soil	S20-Se07143								X																				
113	JB84 0.3-0.4	Aug 29, 2020		Soil	S20-Se07144								X																				
114	JB84 0.5-0.6	Aug 29, 2020		Soil	S20-Se07145								X																				
115	JB84 1-1.1	Aug 29, 2020		Soil	S20-Se07146								X																				
116	JB19-01	Aug 29, 2020		Soil	S20-Se07147								X																				
117	JB19-02	Aug 29, 2020		Soil	S20-Se07148								X																				
118	JB19-04	Aug 29, 2020		Soil	S20-Se07149								X																				
119	JB18 0.3-0.4	Aug 29, 2020		Soil	S20-Se07150								X																				
120	JB18 1-1.1	Aug 29, 2020		Soil	S20-Se07151								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
121	JB18 1.9-2.0	Aug 29, 2020		Soil	S20-Se07152								X																				
122	JB17 0.3-0.4	Aug 29, 2020		Soil	S20-Se07153								X																				
123	JB17 0.5-0.6	Aug 29, 2020		Soil	S20-Se07154								X																				
124	JB17 1.9-2.0	Aug 29, 2020		Soil	S20-Se07155								X																				
125	JB16 0.3-0.4	Aug 29, 2020		Soil	S20-Se07156								X																				
126	JB16 0.5-0.6	Aug 29, 2020		Soil	S20-Se07157								X																				
127	JB16 1-1.1	Aug 29, 2020		Soil	S20-Se07158								X																				
128	JB16 2-2.1	Aug 29, 2020		Soil	S20-Se07159								X																				
129	JB12 0-0.1	Aug 29, 2020		Soil	S20-Se07160								X																				
130	JB12 0.5-0.6	Aug 29, 2020		Soil	S20-Se07161								X																				
131	JB12 2-2.1	Aug 29, 2020		Soil	S20-Se07162								X																				
132	JB15 0.3-0.4	Aug 29, 2020		Soil	S20-Se07163								X																				
133	JB15 0.5-0.6	Aug 29, 2020		Soil	S20-Se07164								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
134	JB15 1-1.1	Aug 29, 2020		Soil	S20-Se07165								X																				
135	JB15 3-3.1	Aug 29, 2020		Soil	S20-Se07166								X																				
136	JB14 0.3-0.4	Aug 29, 2020		Soil	S20-Se07167								X																				
137	JB14 0.5-0.6	Aug 29, 2020		Soil	S20-Se07168								X																				
138	JB14 1-1.1	Aug 29, 2020		Soil	S20-Se07169								X																				
139	JB14 2-2.1	Aug 29, 2020		Soil	S20-Se07170								X																				
140	JB14 3-3.1	Aug 29, 2020		Soil	S20-Se07171								X																				
141	JB11 0.3-0.4	Aug 29, 2020		Soil	S20-Se07172								X																				
142	JB11 0.5-0.6	Aug 29, 2020		Soil	S20-Se07173								X																				
143	JB11 1.4-1.5	Aug 29, 2020		Soil	S20-Se07174								X																				
144	JB10 0.2-0.3	Aug 29, 2020		Soil	S20-Se07175								X																				
145	JB10 1-1.1	Aug 29, 2020		Soil	S20-Se07176								X																				
146	JB10 2.8-2.9	Aug 29, 2020		Soil	S20-Se07177								X																				

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Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 3, 2020 2:05 PM
Due: Sep 10, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	Cyanide (free)	HOLD	Iron	Iron	Manganese	Manganese	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B5	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
147	JB05 0.3-0.4	Aug 29, 2020		Soil	S20-Se07178								X																				
148	JB05 1-1.1	Aug 29, 2020		Soil	S20-Se07179								X																				
149	JB04 0-0.1	Aug 29, 2020		Soil	S20-Se07180								X																				
150	JB04 0.5-0.6	Aug 29, 2020		Soil	S20-Se07181								X																				
151	JB04 1-1.1	Aug 29, 2020		Soil	S20-Se07182								X																				
152	JB82 0.3-0.4	Aug 29, 2020		Soil	S20-Se07183								X																				
153	JB82 0.5-0.6	Aug 29, 2020		Soil	S20-Se07184								X																				
154	JB83 0.3-0.4	Aug 29, 2020		Soil	S20-Se07185								X																				
155	JB83 1-1.1	Aug 29, 2020		Soil	S20-Se07186								X																				
156	JB83 2-2.1	Aug 29, 2020		Soil	S20-Se07187								X																				
157	JB32 0.5-0.8	Aug 30, 2020		Soil	S20-Se07188								X																				
158	JB32 1.4-1.5	Aug 30, 2020		Soil	S20-Se07189								X																				
159	JB32 1.6-1.8	Aug 30, 2020		Soil	S20-Se07190								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
160	JB32 2.6-2.7	Aug 30, 2020		Soil	S20-Se07191								X																				
161	JB32 3-3.1	Aug 30, 2020		Soil	S20-Se07192								X																				
162	JB32 4-4.1	Aug 30, 2020		Soil	S20-Se07193								X																				
163	JB40 0.9-1	Aug 30, 2020		Soil	S20-Se07194								X																				
164	JB40 2.8-3	Aug 30, 2020		Soil	S20-Se07195								X																				
165	JB40 3.9-4	Aug 30, 2020		Soil	S20-Se07196								X																				
166	JB24 0.4-0.5	Aug 30, 2020		Soil	S20-Se07197								X																				
167	JB24 1-1.1	Aug 30, 2020		Soil	S20-Se07198								X																				
168	JB24 3.4-3.5	Aug 30, 2020		Soil	S20-Se07199								X																				
169	JB24 5-5.1	Aug 30, 2020		Soil	S20-Se07200								X																				
170	JB85 0.05-0.3	Aug 30, 2020		Soil	S20-Se07201								X																				
171	JB85 0.3-0.5	Aug 30, 2020		Soil	S20-Se07202								X																				
172	JB85 1-1.1	Aug 30, 2020		Soil	S20-Se07203								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
173	JB85 1.2-1.4	Aug 30, 2020		Soil	S20-Se07204								X																				
174	JB85 1.6-2.2	Aug 30, 2020		Soil	S20-Se07205								X																				
175	JB85 2.6-2.8	Aug 30, 2020		Soil	S20-Se07206								X																				
176	JB85 2.5-2.8	Aug 30, 2020		Soil	S20-Se07207								X																				
177	JB85 3.4-3.5	Aug 30, 2020		Soil	S20-Se07208								X																				
178	JB81 0.1-0.2	Aug 29, 2020		Soil	S20-Se07209								X																				
179	JB81 2-2.1	Aug 29, 2020		Soil	S20-Se07210								X																				
180	JB81 3-3.1	Aug 29, 2020		Soil	S20-Se07211								X																				
181	JB81 4.6-4.7	Aug 29, 2020		Soil	S20-Se07212								X																				
182	JB66 0-0.1	Aug 29, 2020		Soil	S20-Se07213								X																				
183	JB66 1-1.1	Aug 29, 2020		Soil	S20-Se07214								X																				
184	JB66 3-3.1	Aug 29, 2020		Soil	S20-Se07215								X																				
185	JB66 5-5.1	Aug 29, 2020		Soil	S20-Se07216								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X		X	X	X		X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
186	JB66 6-6.1	Aug 29, 2020		Soil	S20-Se07217								X																				
187	JB66 7-7.1	Aug 29, 2020		Soil	S20-Se07218								X																				
188	JB48 0.4-0.5	Aug 29, 2020		Soil	S20-Se07219								X																				
189	JB48 1.9-2	Aug 29, 2020		Soil	S20-Se07220								X																				
190	JB48 4-4.1	Aug 29, 2020		Soil	S20-Se07221								X																				
191	JB17a 0-0.1	Aug 30, 2020		Soil	S20-Se07689			X										X	X							X							
192	JB17a 1-1.1	Aug 30, 2020		Soil	S20-Se07690													X	X					X		X							
193	JB17a 0.3-0.4	Aug 30, 2020		Soil	S20-Se07691								X																				
194	JB17a 0.5-0.6	Aug 30, 2020		Soil	S20-Se07692								X																				
195	JB17a 1.5-1.6	Aug 30, 2020		Soil	S20-Se07693								X																				
196	JB48 5.5-5.6	Aug 29, 2020		Soil	S20-Se08028								X																				
197	UNLABELLED JAR	Aug 29, 2020		Soil	S20-Se08029								X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X					X			X		X					X	X	X			X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X		X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794																									X	X						X	
Perth Laboratory - NATA Site # 23736																																	
198	UNLABELLED BAG	Aug 29, 2020		Soil	S20-Se08030								X																				
Test Counts						16	16	59	2	1	16	16	107	16	16	16	16	21	24	1	33	33	25	25	80	80	12	53	53	1	1	16	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/L	< 0.05			0.05	Pass	
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Iron	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Manganese	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	98			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	83			70-130	Pass	
Ethylbenzene	%	86			70-130	Pass	
m&p-Xylenes	%	72			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	98			70-130	Pass	
1.1.1-Trichloroethane	%	95			70-130	Pass	
1.2-Dichlorobenzene	%	83			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	84			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	97			80-120	Pass	
Arsenic	%	97			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Chromium	%	91			80-120	Pass	
Copper	%	95			80-120	Pass	
Iron	%	99			80-120	Pass	
Lead	%	93			80-120	Pass	
Manganese	%	99			80-120	Pass	
Mercury	%	92			80-120	Pass	
Nickel	%	93			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	96			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	97			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	98			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	93			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	102			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotridecanoic acid (PFTrDA)	%	81			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	94			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	95			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	81			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	100			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	96			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	88			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	96			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	84			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	104			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Aluminium	M20-Se09675	NCP	%	97			75-125	Pass	
Arsenic	M20-Se09675	NCP	%	100			75-125	Pass	
Cadmium	M20-Se09675	NCP	%	97			75-125	Pass	
Chromium	M20-Se09675	NCP	%	90			75-125	Pass	
Copper	M20-Se09675	NCP	%	96			75-125	Pass	
Iron	M20-Se09675	NCP	%	101			75-125	Pass	
Lead	M20-Se09675	NCP	%	91			75-125	Pass	
Manganese	M20-Se09675	NCP	%	100			75-125	Pass	
Mercury	M20-Se09675	NCP	%	86			75-125	Pass	
Nickel	M20-Se09675	NCP	%	95			75-125	Pass	
Zinc	M20-Se09675	NCP	%	99			75-125	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se08722	NCP	%	105			70-130	Pass	
Toluene	S20-Se08722	NCP	%	100			70-130	Pass	
Ethylbenzene	S20-Se08722	NCP	%	97			70-130	Pass	
m&p-Xylenes	S20-Se08722	NCP	%	93			70-130	Pass	
o-Xylene	S20-Se08722	NCP	%	100			70-130	Pass	
Xylenes - Total*	S20-Se08722	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se07113	CP	%	95			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se07113	CP	%	94			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanoic acid (PFHxA)	S20-Se07113	CP	%	98			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se07113	CP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se07113	CP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se07113	CP	%	99			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se07113	CP	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se07113	CP	%	108			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se07113	CP	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se07113	CP	%	77			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se07113	CP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se07113	CP	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se07113	CP	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se07113	CP	%	72			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se07113	CP	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se07113	CP	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se07113	CP	%	87			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se07113	CP	%	87			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se07113	CP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se07113	CP	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se07113	CP	%	80			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se07113	CP	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se07113	CP	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se07113	CP	%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se07113	CP	%	90			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se07113	CP	%	79			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se07113	CP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se07113	CP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se07113	CP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se07113	CP	%	90			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M20-Se09175	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M20-Se09175	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M20-Se09175	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	M20-Se09675	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Arsenic	M20-Se09675	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M20-Se09675	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M20-Se09675	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M20-Se09675	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iron	M20-Se09675	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	M20-Se09675	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Manganese	M20-Se09675	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Mercury	M20-Se09675	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M20-Se09675	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M20-Se09675	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se06902	NCP	ug/L	0.59	0.59	1.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se06902	NCP	ug/L	0.93	0.91	2.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se06888	NCP	ug/L	0.09	0.08	3.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se06902	NCP	ug/L	0.30	0.29	3.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se06902	NCP	ug/L	0.48	0.48	1.0	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se06902	NCP	ug/L	0.11	0.11	3.0	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se06902	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se06902	NCP	ug/L	0.77	0.74	4.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se06902	NCP	ug/L	0.17	0.18	4.0	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se06902	NCP	ug/L	0.35	0.34	3.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se06902	NCP	ug/L	0.62	0.61	1.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se06888	NCP	ug/L	0.37	0.35	6.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se06902	NCP	ug/L	1.0	1.0	1.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se06888	NCP	ug/L	0.50	0.48	5.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se06902	NCP	ug/L	0.76	0.79	4.0	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se06902	NCP	ug/L	0.07	0.07	8.0	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se06902	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se09464	NCP	mg/L	0.002	0.001	5.0	30%	Pass	
Toluene	S20-Se09464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Se09464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Se09464	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Se09464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-Se09464	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised By

Ursula Long	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

017067

CHAIN OF CUSTODY

Pg 1/1

JBS&G

PROJECT NO.: PLE 58238	LABORATORY BATCH NO.: 742620
PROJECT NAME: PLE	SAMPLERS: JN + CK
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOCs 8260 modified	TRH *	Isopropanol	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
VP20	Gas	5/9/20		Carbon tube		X	X	X			* F1 + F2 reported please
VP21	↓	↓		↓		X	X	X			
QV1						X	X	X			
FB						X	X	X			
EB						X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: George Emptin DATE: 7/9	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

eurofins | Environment Testing

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 7, 2020 6:00 PM
Eurofins reference	742620

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742620
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Newcastle Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	VP20 (FRONT)	Sep 05, 2020		Air	S20-Se12751	X	X	X
2	VP20 (BACK)	Sep 05, 2020		Air	S20-Se12752	X	X	X
3	VP21 (FRONT)	Sep 05, 2020		Air	S20-Se12753	X	X	X
4	VP21 (BACK)	Sep 05, 2020		Air	S20-Se12754	X	X	X
5	QV1 (FRONT)	Sep 05, 2020		Air	S20-Se12755	X	X	X
6	QV1 (BACK)	Sep 05, 2020		Air	S20-Se12756	X	X	X
7	EB (FRONT)	Sep 05, 2020		Air	S20-Se12757	X	X	X
8	EB (BACK)	Sep 05, 2020		Air	S20-Se12758	X	X	X

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742620
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
9	FB (FRONT)	Sep 05, 2020		Air	S20-Se12759	X	X	X
10	FB (BACK)	Sep 05, 2020		Air	S20-Se12760	X	X	X
Test Counts						10	10	10

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742620-A**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			**VP20 (FRONT)**	**VP20 (BACK)**	**VP21 (FRONT)**	**VP21 (BACK)**
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S20-Se12751**	**S20-Se12752**	**S20-Se12753**	**S20-Se12754**
Date Sampled			**Sep 05, 2020**	**Sep 05, 2020**	**Sep 05, 2020**	**Sep 05, 2020**
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	2.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	1.2	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			VP20 (FRONT)	VP20 (BACK)	VP21 (FRONT)	VP21 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se12751	S20-Se12752	S20-Se12753	S20-Se12754
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	1.9	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	0.9	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	89	94	92	91
4-Bromofluorobenzene (surr.)	1	%	89	92	91	91
Dibromofluoromethane (surr.)	1	%	94	92	93	93
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QV1 (FRONT)	QV1 (BACK)	EB (FRONT)	EB (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se12755	S20-Se12756	S20-Se12757	S20-Se12758
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	Total ug	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20	< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20	< 20	< 20
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QV1 (FRONT)	QV1 (BACK)	EB (FRONT)	EB (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Se12755	S20-Se12756	S20-Se12757	S20-Se12758
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	1.9	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	0.6	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	2.2	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	90	90	88	89
4-Bromofluorobenzene (surr.)	1	%	89	91	89	92
Dibromofluoromethane (surr.)	1	%	94	94	93	92
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			FB (FRONT)	FB (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S20-Se12759	S20-Se12760
Date Sampled			Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit		
Isopropanol	10	Total ug	< 10	< 10
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH C6-C10	20	Total ug	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20		< 20	< 20
TRH >C10-C16	20	Total ug	< 20	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	20		< 20	< 20
VOCs in Ambient Air by GC/MS				
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5

Client Sample ID			FB (FRONT)	FB (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S20-Se12759	S20-Se12760
Date Sampled			Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	87	91
4-Bromofluorobenzene (surr.)	1	%	88	91
Dibromofluoromethane (surr.)	1	%	92	93
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Isopropanol	Melbourne	Sep 07, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOCs in Ambient Air by GC/MS	Melbourne	Sep 07, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOC AIR-TRH (Total Recoverable Hydrocarbons)			
Total Recoverable Hydrocarbons	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 07, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			

eurofins | Environment Testing

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742620
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Newcastle Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	VP20 (FRONT)	Sep 05, 2020		Air	S20-Se12751	X	X	X
2	VP20 (BACK)	Sep 05, 2020		Air	S20-Se12752	X	X	X
3	VP21 (FRONT)	Sep 05, 2020		Air	S20-Se12753	X	X	X
4	VP21 (BACK)	Sep 05, 2020		Air	S20-Se12754	X	X	X
5	QV1 (FRONT)	Sep 05, 2020		Air	S20-Se12755	X	X	X
6	QV1 (BACK)	Sep 05, 2020		Air	S20-Se12756	X	X	X
7	EB (FRONT)	Sep 05, 2020		Air	S20-Se12757	X	X	X
8	EB (BACK)	Sep 05, 2020		Air	S20-Se12758	X	X	X

eurofins | Environment Testing

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742620
Phone: 02 8245 0300
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Received: Sep 7, 2020 6:00 PM
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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Isopropanol	VOC AIR-TRH (Total Recoverable Hydrocarbons)	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
9	FB (FRONT)	Sep 05, 2020		Air	S20-Se12759	X	X	X
10	FB (BACK)	Sep 05, 2020		Air	S20-Se12760	X	X	X
Test Counts						10	10	10

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Isopropanol	Total ug	< 10			10	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	Total ug	< 20			20	Pass	
TRH >C10-C16	Total ug	< 20			20	Pass	
Method Blank							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
Naphthalene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
LCS - % Recovery							
Isopropanol	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	97			70-130	Pass	
TRH >C10-C16	%	94			70-130	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	82			70-130	Pass	
1.1-Dichloropropene	%	73			70-130	Pass	
1.1.1-Trichloroethane	%	79			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	97			75-125	Pass	
1.2-Dichloroethane	%	80			70-130	Pass	
Benzene	%	99			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Toluene	%	91			70-130	Pass	
Trichloroethene	%	73			70-130	Pass	
Xylenes - Total*	%	95			70-130	Pass	
1.2-Dichlorobenzene	%	82			70-130	Pass	
1.2.3-Trichlorobenzene	%	71			70-130	Pass	
1.2.4-Trichlorobenzene	%	76			70-130	Pass	
1.4-Dichlorobenzene	%	86			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised By

Ursula Long	Analytical Services Manager
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

017068

CHAIN OF CUSTODY

Pg 1 / 15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC/OM	28 PFAs	Hold B7	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB01_0-0.1	Soil	5/9/20		Jar + Bag															Other metals =
_0.4-0.5						x		x	x	x								x	aluminium, manganese, iron & cyanide (free)
_1.5-1.6																			
JB02_0-0.1				J + B															
_0.5-0.6						x		x	x	x	x							G	
_1.5-1.6																			
_2.6-2.7				Jar															
JB03_0-0.1				Jar + Bag															
_0.3-0.4						x		x	x	x	x							x	
_1.0-1.1																			
_1.3-1.4																			
_2.4-2.5						x		x	x	x	x							x	
_3.0-3.1																			
JB06_0-0.1				J + B															
_0.5-0.6																			
_1.1-1.2																			
_2.0-2.1				+ PFAs		x		x	x	x					x			x	
_2.8-2.9																			
JB07_0-0.1				J + B		x		x		x								x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M Birkett	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6:00pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 | 742692

017069

CHAIN OF CUSTODY

Pg 2/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Ckaufman.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAS	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB07_0.5-0.6	Soil	5/9/20		J+B														
_1.5-1.6	↓	↓		↓														
_2.7-2.8				J														
JB08_0-0.1				J+B														
_0.5-0.6				↓														
_1.5-1.6																		
_2.3-2.3				J		X	X											
JB09_0-0.1				J+B														
_0.5-0.6				↓														
_1.1-1.2																		
_1.6-1.7																		
JB13_0-0.1				J+B														
_0.5-0.6				↓		X	X	X	X								X	
JB14_0-0.1				J+B														
_0.5-0.6				↓ +PFAS		X	X	X	X	X				X				
_1.0-1.1																		
_1.5-1.6																		
_1.6-1.7				J														
JB14A_0-0.1	↓	↓		J+B														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

742676/742692

017070

CHAIN OF CUSTODY

Pg 3/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PEE	SAMPLERS: CK + JW
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500g	OCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB14A_0.5-0.6	soil	5/9/20		J+B		x		x	x	x	x							x	
-1.0-1.1	↓	↓		↓						x								x	
-1.5-1.6																			
-1.8-1.9				J															
JB14B_0-0.1				J+B		x		x	x	x								x	
-0.5-0.6				↓															
-1.5-1.6						x		x		x				x				x	
-1.7-1.8				J															
JB14C_0-0.1				J+B															
-0.5-0.6				↓															
-1.0-1.1																			
-1.5-1.6				J															
JB14D_0-0.1				J+B		x		x		x									x
-0.5-0.6				↓															
-1.0-1.1																			
-1.3-1.4				J															
JB20_0.-0.1				J+B		x		x	x	x	x								x
-0.2-0.3				J		x		x	x	x	x								
JB21_0-0.1	↓	↓		J+B		x				x									x

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ~~No~~ ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 | 742692

017071

CHAIN OF CUSTODY

Pg 4/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos ID/QA	OCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAS	Hold	Asbestos ID	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB21_0.2-0.3	Soil	5/9/20		J																
JB22a_0-0.1	Soil			J+B		x	x	x	x	x	x	x							x	
JB22a Frag	Fragment/Material			B														x		Asb ID.
JB22B_0-0.1	Soil			J+B		x		x		x									b	
↓ _0.3-0.4		↓		↓																
JB27_0-0.1		4/9/20		J+B+PFAs		x	x	x	x	x	x	x		x						
_0.5-0.6				J+B		x	x	x												
↓ _1.0-1.1		↓		↓																
JB28_0.2-0.3		5/9/20		J+B+PFAs		x		x	x		x	x	x		x					
_0.5-0.6				J		x		x	x			x								
_0.7-0.8																				
_1.5-1.6						x		x	x		x	x	x							
↓ _2.1-2.2		↓		↓																
JB29_0.1-0.2		5/9/20		J+B+PFAs		x		x	x											
_0.5-0.6				J+B																
↓ _1.6-1.7		↓		↓																
JB30_0.05-0.1		4/9/20		J+B+PFAs		x		x												
_0.5-0.6				J+B																
↓ _1.5-1.6		↓		↓																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017072

CHAIN OF CUSTODY

Pg 5/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB30_2.1-2.2	Soil	4/9/20		J+B															
JB30_3.0-3.1						x		x	x	x								y	
JB30_3.7-3.8				J															
JB31_0.05-0.1				J+B+PFAs		x	x	x	y	y	x	x	x		x				
JB31_0.4-0.5				J+B															
JB31_0.9-1.0						x		x	y										
JB31_2.0-2.1																			
JB31_2.4-2.5				J															
JB31_2.8-2.9																			
JB35_0-0.1		4/9/20		J+B+PFAs															
JB35_0.5-0.6				J+B															
JB35_1.0-1.1																			
JB35_2.1-2.2						x	x	x	x			x							
JB35_2.4-2.5																			
JB35_3.1-3.2																			
JB35_4.0-4.1						x		x	x	x								y	
JB35_5.0-5.1				J															
JB36_0.05-0.1		4/9/20		J+B+PFAs		x	x	x	x										
JB36_1.0-1.1				J+B															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M- Barnett	COOLER SEAL – Yes✓ No ..... Intact✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017073

CHAIN OF CUSTODY

Pg 6/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Stadard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB36_0.0-0.1	Soil	4/9/20		J+B															
_0.3-0.3				J															
JB37_0.05-0.1				J+B+PFAs		x		b	x		.								
_0.6-0.7				J+B															
_1.5-1.6				J															
_2.6-2.7																			
_4.0-4.1						x		x	x										
_4.1-4.2																			
JB38_0.1-0.2				J+B+PFAs		x		x	x		x	x							
_1.0-1.1				J+B															
_1.8-1.9				J		x		x	x										
_2.0-2.1																			
_3.0-3.1																			
JB39_0.2-0.3				J+PFAs		x	x	x	x	x	x	x	x		4				No PFAS
_0.9-1.0				J															
JB41_0.1-0.2		5/9/20		J+PFAs		x	x	x	x	x	x	x			x				
_1.0-1.1				J															
JB42_0.05-0.1				J+PFAs		x		x	x		x	x	4						
_1.0-1.1				J															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ✓ No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	COOLER TEMP 9.3 ✓ deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017074

CHAIN OF CUSTODY

Pg 7/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	other metals	PAHs	TPH/BTEX	Asbestos soil	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB43_0-0.1	Soil	3/9/20		J+B		x		x											
↓ _0.5-0.6	↓	↓		J															
JB43A_0-0.1				J+B		x		x	x	x								x	
↓ _0.4-0.5				J															
↓ _1.0-1.1				J															
JB44_0-0.1				J+B		x		x		b								x	
↓ _0.3-0.4				↓															
↓ _1.0-1.1				J															
JB45_0.05-0.1				J+B+PFAs		x		b											
↓ _0.5-0.6				J															
JB49_0.05-0.1				J+B+PFAs		b		b		b								b	
↓ _0.5-0.6				↓															
↓ _2.0-2.1				J															
↓ _2.5-2.6		↓		↓															
JB50_0.1-0.2		4/9/20		J+B+PFAs		x		x	y			x							
↓ _0.3-0.4		↓		J															
↓ _0.5-0.6				J+B															
↓ _2.4-2.5				J+B															
↓ _3.0-3.1	↓	↓		J															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M Birkett	COOLER SEAL – Yes..✓.. No ..... Intact ..✓.. Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07/09/20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017075

CHAIN OF CUSTODY

Pg 8/15

JBS&G

PROJECT NO.: 58238
PROJECT NAME: PLE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: JN + CK
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	OTHER METALS	PAHs	TPH/BTEX	ASBESTOS 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	HOLD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB50_3.3-3.4	Soil	4/9/20		J+B		X		X		X	X								
↓ _4.8-4.9		↓		J															
JB63_0.1-0.2				J+PFAs		X	X	X	X		X	X	X		X				
_0.5-0.6				↓															
_1.5-1.6				J															
_2.1-2.2				↓					X			X	X						
_2.6-2.7																			
JB65_0.05-0.1				J+B+PFAs		X		X	X	X									
_0.2-0.3				J+B															
_1.0-1.1				↓															
_1.2-1.3				J															
_2.1-2.2				↓															
JB67_0-0.1		5/9/20		J+B															
_0.5-0.6																			
_1.0-1.1																			
_1.5-1.6																			
_2.0-2.1																			
_3.0-3.1		↓				X		X		X	X			X					
JB68_0.05-0.1		4/9/20		J+B+PFAs															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07/09/20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 / 742692

017076

CHAIN OF CUSTODY

Pg 9/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos Soil	OCPs/PCBs	VOCs	SVOCs	CEC	PB PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB68_0.5-0.6	Soil	4/9/20		J+B		x		x	x	x	x								
_1.3-1.4				J															
_2.3-2.4																			
JB69_0.05-0.1				J+B+PFAs															
_0.4-0.5				J+B															
_0.7-0.8																			
_3.3-3.4				J															
_3.8-3.9																			
JB70_0-0.1		5/9/20		J+B		x		x		x									
_0.5-0.6																			
_1.0-1.1																			
_2.1-2.2																			
JB80_0-0.1				J+B+PFAs		x		x		x									
_0.5-0.6				J+B															
_1.0-1.1																			
JB93_0.4-0.5		5/9/20		J+B+PFAs		x		x	x		x	x	x						
_1.0-1.1				J		x			x			x							
_2.0-2.1																			
_2.5-2.6																			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017077

CHAIN OF CUSTODY

Pg 10/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS:
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	BTEXN	HM	Other Metals	PAHs	TRH/BTEX	Asbestos Screen	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Ammonia	Nitrate/nitrite	nitrogen speciation	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB101_0.15-0.2	soil	5/9/20		J+B+PFAs			X		X													
_1.0-1.1				J+B																		* PAH (low level) for RIN03
_1.5-1.6				J																		
_2.3-2.4				J+B																		
JB103_0-0.1				J+B																		
_0.4-0.5				J		X	X		X	X			X									
JB104_0.2-0.3				J+PFAs																		
_1.0-1.1				J																		
JB105_0.05-0.1				J+B+PFAs																		
_0.5-0.6				J																		
QA20200904-1		4/9/20		J		X	X	X	X	X		X	X									
-2				J																		
QA20200905-1		5/9/20		J+B			X	X	X	X	X	X	X			X						
-2				PFAs												X						
QA20200905-CK1				J+B			X		X	X	X	X									X	
-CK2				J+B			X		V	X	X	Y									X	
rin02	water	5/9/20		2xvials, amber, metals, PFAs			X	X	X	X		X	X	X		X						
rin03				PFAs, 2xvials, amber, green, purple, red plastic			X		X	X		X	X				X	X	X			
TS/TB		3/9/20		4x vials		X																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY

11/15 24304

JBS&G

PROJECT NO.: SS238
PROJECT NAME: PLE
DATE NEEDED BY: standard

LABORATORY BATCH NO.:
SAMPLERS: LSC
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..Cmaulbman..@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos soil/	CCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAS	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB100 0.0-0.1	Soil	4/9/20		Jar+Bag+Pfas		X		X		X									Other metals = aluminium, manganese iron, cyanide (free)
0.4-0.5				J+B		X		X		X									
1.2-1.3				J+B		X		X		X									
JB99 0.1-0.2				J+B+Pfas															
0.4-0.5				J+B+Pfas Pfas															
JB98 0.0-0.1				J+B+Pfas		X		X		X	X			X				X	
0.4-0.5				J+B															
0.9-1.0				B+J															
1.9-2.0				J+B		X		X		X								Y	
JB97 0.1-0.2				J+B+P															
0.4-0.5				J+B															
0.9-1.0				J+B															
1.9-2.0				J+B															
JB96 0.0-0.1				J B Pfas.		X		·		X								Y	
0.4-0.5				J B															
0.9-1.0				J B															
1.9-2.0				J B															
										X								O	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 07-09-20 6pm	COOLER TEMP 9.3 ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY 12/15

24305

JBS&G

PROJECT NO.: S8238
PROJECT NAME: PLE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: Robert Sh
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Ckauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500ml	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAS Helg	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB95 0.1-0.2	soil	4/9/20		JB+P														
0.9-1.0				J+B						X								
1.6-1.7				J+B														
1.9-2.0				J+B														
JB94 0.1-0.2				J+B+Pfas.														
0.9-1.0				J+B						X								
1.9-2.0				J+B														
2.9-2.5				J+B						X								
JB89 0.1-0.2				J+B														
0.4-0.5				J+B+P						X								
1.7-1.9				Jar														
2.3-2.4				J+B+														
JB92 0.1-0.2				B+J		X		X	X	X		X						
0.5-0.6				J+B														
0.9-1.0				J+B+Pfas.														
JB92A 0.0-0.1				Bag														
JB89A 0.2-0.3				J+B						X								
JB90 0.2-0.3				J+B														
0.5-0.6				J+Pfas.														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY 13/8/15 24306

JBS&G

PROJECT NO.: 58238
PROJECT NAME: PCE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: RS
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	OT	arsenic	VOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB98 - A	Material	4/9/20		Bag		x				x		
JB96 - A	↓	↓		↓		x				x		
JB94 - A						x				x		
JB14 0.2-0.3				JAR								
0.6-0.7				+ Pfos								
1.2-1.3												
JB91 0-0.1												
0.4-0.5				+ Pfos.								
1.8-1.9												
JB60 0.2-0.4						x	x	x	x		x	
0.6-0.8												
1.1-1.2												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6.9.20	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 07-09-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

14/15

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: Matthew
DATE NEEDED BY: Std	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaufus@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Bottles = 1lp H.M. 1vial, 1x amb, 1x green, 1x purple 1lp PFAS.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H.M	PAH (LL)	VOC	TRH/BTEX	Ec, pH, alkalinity	TDS	Nitrate/Nitrite	Nitrogen (Speciated) Ammonia	PFAS	TS12A Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01	Water	5.9.20	-	Bottles + Vials + Ice		x	x	x	x	x	x	x	x	x	x			
MW02	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
MW03	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
MW06	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
JB51-0-0.3	Soil	"	-	Bag + Jar + Ice														
JB64 0-0.1		"	-															
0.2-0.5		"	-															
0.5-1		"	-															
JB75 0-0.1		"	-											x			x	
0.2-0.5		"	-															
0.5-1		"	-											x			x	
JB76 0-0.1		"	-											x			x	
0.2-0.5		"	-															
JB77 0-0.1		"	-											x			x	
0.2-0.5		"	-															
JB78 0-0.1		"	-											x			x	
0.2-0.5		"	-															
QC Rinsate	Water	"	-	Bottles + Vials + Ice		x	x	x	x	x	x	x	x	x	x			M, As, Lab
QC7020905-NZ	Soil	"	-	Bag + Jar + Ice.														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Lim DATE: 5-9-20.	CONSIGNMENT NOTE NO.	NAME: M. Brocket	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle: N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial: VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd: Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle: O = Other

JMSO Forms013 - Chain of Custody - Generic

742676/742692

~~4/4~~ ~~3/3~~ 15/15

CHAIN OF CUSTODY

PROJECT NO.: S8238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: ML
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HOLD	JSZA	Asbestos 14m	PAH	OCP/OPP	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB7a 0-0.1	Soil	5-9-20	-	Bag, Ice + Jar			X					X	
0.2-0.5													
0.5-1													
JB15 0-0.1							X					X	
0.2-0.5													
0.5-1													
JB15A 0-0.1													
0.2-0.5													
0.5-1													
JB16 0-0.1						X							
0.1-0.4						X							
JB17 0.05-0.1						X							
0.2-0.5						X							
JB23 0-0.1							X	X	X	X			
JB25 0-0.1							X	X	X	X			
JB26 0-0.1							X	X	X	X			
BA20200905-ML	Soil	5.9.20		J+J		X							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M Hoz DATE: 6.9.20	CONSIGNMENT NOTE NO.	NAME: M. Birch	COOLER SEAL – Yes ~~No~~ ..... Intact ~~Broken~~ .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	COOLER TEMP 9.37 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

~~7421~~ 742676/742692

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Site # 1254 & 14271

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 8 9251 9600
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Site # 23736

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4/52 Industrial Drive
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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 7, 2020 6:00 PM
Eurofins reference	742676

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 9.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Continued on report 742692. No cyanide bottle received for RIN02, CN free analysis cancelled. JB20_0-0.1 not received, analysis cancelled. No asbestos bag received for JB20_0.2-0.3, JB39_0.2-0.3, JB41_0.1-0.2, JB68_1.3-1.4, JB45_0.05-0.1 and QC20200905, asbestos analysis cancelled where applicable. JB60_0.6-0.9 received as JB60_0.8-0.9, logged as per sample. JB91_0.4-0.5 received as JB91_0.5-0.6, logged as per sample. Extra samples JB89_0.9-1.0 (jar and bag) and JB70_0-0.1 (jar and bag) received and logged on hold (report 742692).

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

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NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
16 Mars Road
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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4/52 Industrial Drive
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New Zealand

Auckland
35 O'Rorke Road
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Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271		X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																		X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																														
Newcastle Laboratory																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	JB01_0.4-0.5	Sep 05, 2020		Soil	S20-Se13658			X																X			X				
2	JB02_0.5-0.6	Sep 05, 2020		Soil	S20-Se13659			X													X				X			X				
3	JB03_0.3-0.4	Sep 05, 2020		Soil	S20-Se13660			X													X				X			X				
4	JB03_2.4-2.5	Sep 05, 2020		Soil	S20-Se13661			X													X				X			X				
5	JB06_2.0-2.1	Sep 05, 2020		Soil	S20-Se13662			X																	X			X			X	
6	JB07_0-0.1	Sep 05, 2020		Soil	S20-Se13663			X									X	X							X							
7	JB08_1.5-1.6	Sep 05, 2020		Soil	S20-Se13664												X	X							X							
8	JB13_0.5-0.6	Sep 05, 2020		Soil	S20-Se13665			X																	X			X				
9	JB14_0.5-0.6	Sep 05, 2020		Soil	S20-Se13666			X													X				X			X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X			
Perth Laboratory - NATA Site # 23736																																			
10	JB14A_0.5-0.6	Sep 05, 2020		Soil	S20-Se13667			X														X				X			X					
11	JB14A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13668			X																											
12	JB14B_0-0.1	Sep 05, 2020		Soil	S20-Se13669			X																			X			X					
13	JB14B_1.5-1.6	Sep 05, 2020		Soil	S20-Se13670			X									X	X	X								X	X							
14	JB14D_0-0.1	Sep 05, 2020		Soil	S20-Se13671			X										X	X								X								
15	JB20_0-0.1	Sep 05, 2020		Soil	S20-Se13672					X																									
16	JB20_0.2-0.3	Sep 05, 2020		Soil	S20-Se13673																	X					X			X					
17	JB21_0-0.1	Sep 05, 2020		Soil	S20-Se13674			X											X								X								
18	JB22A_0-0.1	Sep 05, 2020		Soil	S20-Se13675	X		X			X		X		X							X			X		X			X					
19	JB22A_FRAG	Sep 05, 2020		Building Materials	S20-Se13676				X																										
20	JB22B_0-0.1	Sep 05, 2020		Soil	S20-Se13677			X										X	X								X								
21	JB27_0-0.1	Sep 04, 2020		Soil	S20-Se13678	X		X			X		X		X		X					X			X		X	X		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
22	JB27_0.5-0.6	Sep 04, 2020		Soil	S20-Se13679	X					X		X		X			X	X							X									
23	JB28_0.2-0.3	Sep 05, 2020		Soil	S20-Se13680																	X			X		X		X	X			X			
24	JB28_0.5-0.6	Sep 05, 2020		Soil	S20-Se13681																						X				X					
25	JB28_1.5-1.6	Sep 05, 2020		Soil	S20-Se13682																	X			X		X		X		X					
26	JB29_0.1-0.2	Sep 05, 2020		Soil	S20-Se13683																						X				X					
27	JB30_0.05-0.1	Sep 05, 2020		Soil	S20-Se13684													X	X								X									
28	JB30_3.0-3.1	Sep 04, 2020		Soil	S20-Se13685			X																			X				X					
29	JB31_0.05-0.1	Sep 04, 2020		Soil	S20-Se13686	X		X			X		X		X							X			X		X		X	X			X			
30	JB31_0.9-0.1	Sep 04, 2020		Soil	S20-Se13687																						X				X					
31	JB35_2.1-2.2	Sep 04, 2020		Soil	S20-Se13688	X					X		X		X										X		X				X					
32	JB35_4.0-4.1	Sep 04, 2020		Soil	S20-Se13689			X																			X				X					
33	JB36_0.05-0.1	Sep 04, 2020		Soil	S20-Se13690	X					X		X		X												X				X					
34	JB37_0.05-0.1	Sep 04, 2020		Soil	S20-Se13691																						X				X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																		
35	JB37_4.0-4.1	Sep 04, 2020		Soil	S20-Se13692																					X			X					
36	JB38_0.1-0.2	Sep 04, 2020		Soil	S20-Se13693																	X			X		X			X					
37	JB38_1.8-1.9	Sep 04, 2020		Soil	S20-Se13694																						X			X					
38	JB39_0.2-0.3	Sep 04, 2020		Soil	S20-Se13695	X					X		X		X							X			X		X		X	X					
39	JB41_0.1-0.2	Sep 05, 2020		Soil	S20-Se13696	X					X		X		X							X			X		X			X			X		
40	JB42_0.05-0.1	Sep 05, 2020		Soil	S20-Se13697																	X			X		X			X					
41	JB43_0-0.1	Sep 05, 2020		Soil	S20-Se13698													X	X								X								
42	JB43A_0-0.1	Sep 05, 2020		Soil	S20-Se13699			X																			X			X					
43	JB44_0-0.1	Sep 05, 2020		Soil	S20-Se13700			X										X	X								X								
44	JB45_0.05-0.1	Sep 05, 2020		Soil	S20-Se13701													X	X								X								
45	JB49_0.05-0.1	Sep 05, 2020		Soil	S20-Se13702			X										X	X								X								
46	JB50_0.1-0.2	Sep 04, 2020		Soil	S20-Se13703																				X		X			X					
47	JB50_3.3-3.4	Sep 04, 2020		Soil	S20-Se13704			X										X	X			X					X								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X		X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
48	JB63_0.1-0.2	Sep 04, 2020		Soil	S20-Se13705	X					X		X		X							X			X		X		X	X			X		
49	JB63_2.1-2.2	Sep 04, 2020		Soil	S20-Se13706																				X		X		X			X				
50	JB65_0.05-0.1	Sep 04, 2020		Soil	S20-Se13707			X																			X			X						
51	JB67_3.0-3.1	Sep 05, 2020		Soil	S20-Se13708			X									X	X	X			X					X	X								
52	JB68_1.3-1.4	Sep 04, 2020		Soil	S20-Se13709																	X					X			X						
53	JB70_0-0.1	Sep 05, 2020		Soil	S20-Se13710			X										X	X								X									
54	JB80_0-0.1	Sep 05, 2020		Soil	S20-Se13711			X										X	X								X									
55	JB93_0.4-0.5	Sep 05, 2020		Soil	S20-Se13712																	X			X		X		X	X						
56	JB93_2.0-2.1	Sep 05, 2020		Soil	S20-Se13713														X						X		X					X				
57	JB101_0.15-0.2	Sep 05, 2020		Soil	S20-Se13714													X	X								X									
58	JB103_0.4-0.5	Sep 05, 2020		Soil	S20-Se13715																				X		X			X						
59	JB105_0.05-	Sep 05, 2020		Soil	S20-Se13716																	X			X		X			X						

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
	0.1																																			
60	QA20200904-1	Sep 04, 2020		Soil	S20-Se13717	X					X		X		X							X					X				X				
61	QA20200905-1	Sep 05, 2020		Soil	S20-Se13718	X		X			X		X		X							X			X		X				X				
62	QA20200905-2	Sep 05, 2020		Soil	S20-Se13719																					X							X		
63	QA20200905-CK1	Sep 05, 2020		Soil	S20-Se13720			X														X					X				X				
64	QA20200905-CK2	Sep 05, 2020		Soil	S20-Se13721			X														X					X				X				
65	RIN02	Sep 05, 2020		Water	S20-Se13722		X							X		X					X			X				X		X		X			
66	RIN03	Sep 05, 2020		Water	S20-Se13723																X		X	X											X
67	TS	Sep 03, 2020		Water	S20-Se13724																													X		

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
68	TB	Sep 03, 2020		Water	S20-Se13725															X															
69	JB100_0.0-0.1	Sep 04, 2020		Soil	S20-Se13726			X										X	X							X									
70	JB100_0.4-0.5	Sep 04, 2020		Soil	S20-Se13727			X										X	X							X									
71	JB100_1.2-1.3	Sep 04, 2020		Soil	S20-Se13728			X										X	X							X									
72	JB98_0.0-0.1	Sep 04, 2020		Soil	S20-Se13729			X									X	X	X			X				X	X								
73	JB98_1.9-2.0	Sep 04, 2020		Soil	S20-Se13730			X										X	X							X									
74	JB96_0.0-0.1	Sep 04, 2020		Soil	S20-Se13731			X																											
75	JB95_0.9-1.0	Sep 04, 2020		Soil	S20-Se13732			X																											
76	JB94_0.9-1.0	Sep 04, 2020		Soil	S20-Se13733			X																											
77	JB94_2.4-2.5	Sep 04, 2020		Soil	S20-Se13734			X																											
78	JB89_0.4-0.5	Sep 04, 2020		Soil	S20-Se13735			X																											
79	JB52_0.5-0.6	Sep 04, 2020		Soil	S20-Se13736			X																	X		X			X					
80	JB89A_0.2-0.3	Sep 04, 2020		Soil	S20-Se13737			X																											

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
81	JB98-A	Sep 04, 2020		Building Materials	S20-Se13738				X																											
82	JB96-A	Sep 04, 2020		Building Materials	S20-Se13739				X																											
83	JB94-A	Sep 04, 2020		Building Materials	S20-Se13740				X																											
84	JB01_0-0.1	Sep 05, 2020		Soil	S20-Se13741							X																								
85	JB01_1.5-1.6	Sep 05, 2020		Soil	S20-Se13742							X																								
86	JB02_0-0.1	Sep 05, 2020		Soil	S20-Se13743							X																								
87	JB02_1.5-1.6	Sep 05, 2020		Soil	S20-Se13744							X																								
88	JB02_2.6-2.7	Sep 05, 2020		Soil	S20-Se13745							X																								
89	JB03_0-0.1	Sep 05, 2020		Soil	S20-Se13746							X																								
90	JB03_1.0-1.1	Sep 05, 2020		Soil	S20-Se13747							X																								
91	JB03_1.3-1.4	Sep 05, 2020		Soil	S20-Se13748							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
92	JB03_3.0-3.1	Sep 05, 2020		Soil	S20-Se13749							X																								
93	JB06_0-0.1	Sep 05, 2020		Soil	S20-Se13750							X																								
94	JB06_0.5-0.6	Sep 05, 2020		Soil	S20-Se13751							X																								
95	JB06_1.1-1.2	Sep 05, 2020		Soil	S20-Se13752							X																								
96	JB06_2.8-2.9	Sep 05, 2020		Soil	S20-Se13753							X																								
97	JB07_0.5-0.6	Sep 05, 2020		Soil	S20-Se13754							X																								
98	JB07_1.5-1.6	Sep 05, 2020		Soil	S20-Se13755							X																								
99	JB07_2.7-2.8	Sep 05, 2020		Soil	S20-Se13756							X																								
100	JB08_0-0.1	Sep 05, 2020		Soil	S20-Se13757							X																								
101	JB08_0.5-0.6	Sep 05, 2020		Soil	S20-Se13758							X																								
102	JB08_2.3-2.3	Sep 05, 2020		Soil	S20-Se13759							X																								
103	JB09_0-0.1	Sep 05, 2020		Soil	S20-Se13760							X																								
104	JB09_0.5-0.6	Sep 05, 2020		Soil	S20-Se13761							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
105	JB09_1.1-1.2	Sep 05, 2020		Soil	S20-Se13762							X																								
106	JB09_1.6-1.7	Sep 05, 2020		Soil	S20-Se13763							X																								
107	JB13_0-0.1	Sep 05, 2020		Soil	S20-Se13764							X																								
108	JB14_0-0.1	Sep 05, 2020		Soil	S20-Se13765							X																								
109	JB14_1.0-1.1	Sep 05, 2020		Soil	S20-Se13766							X																								
110	JB14_1.5-1.6	Sep 05, 2020		Soil	S20-Se13767							X																								
111	JB14_1.6-1.7	Sep 05, 2020		Soil	S20-Se13768							X																								
112	JB14A_0-0.1	Sep 05, 2020		Soil	S20-Se13769							X																								
113	JB14A_1.5-1.6	Sep 05, 2020		Soil	S20-Se13770							X																								
114	JB14A_1.8-1.9	Sep 05, 2020		Soil	S20-Se13771							X																								
115	JB14B_0.5-0.6	Sep 05, 2020		Soil	S20-Se13772							X																								
116	JB14B_1.7-1.8	Sep 05, 2020		Soil	S20-Se13773							X																								
117	JB14C_0-0.1	Sep 05, 2020		Soil	S20-Se13774							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
118	JB14C_0.5-0.6	Sep 05, 2020		Soil	S20-Se13775							X																							
119	JB14C_1.0-1.1	Sep 05, 2020		Soil	S20-Se13776							X																							
120	JB14C_1.5-1.6	Sep 05, 2020		Soil	S20-Se13777							X																							
121	JB14D_0.5-0.6	Sep 05, 2020		Soil	S20-Se13778							X																							
122	JB14D_1.0-1.1	Sep 05, 2020		Soil	S20-Se13779							X																							
123	JB14D_1.3-1.4	Sep 05, 2020		Soil	S20-Se13780							X																							
124	JB21_0.2-0.3	Sep 05, 2020		Soil	S20-Se13781							X																							
125	JB22B_0.3-0.4	Sep 05, 2020		Soil	S20-Se13782							X																							
126	JB27_1.0-1.1	Sep 04, 2020		Soil	S20-Se13783							X																							
127	JB28_0.7-0.8	Sep 05, 2020		Soil	S20-Se13784							X																							
128	JB28_2.1-2.2	Sep 05, 2020		Soil	S20-Se13785							X																							
129	JB29_0.5-0.6	Sep 05, 2020		Soil	S20-Se13786							X																							
130	JB29_1.6-1.7	Sep 05, 2020		Soil	S20-Se13787							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
131	JB30_0.5-0.6	Sep 05, 2020		Soil	S20-Se13788							X																								
132	JB30_1.5-1.6	Sep 04, 2020		Soil	S20-Se13789							X																								
133	JB30_2.1-2.2	Sep 04, 2020		Soil	S20-Se13790							X																								
134	JB30_3.7-3.8	Sep 04, 2020		Soil	S20-Se13791							X																								
135	JB31_0.4-0.5	Sep 04, 2020		Soil	S20-Se13792							X																								
136	JB31_2.0-2.1	Sep 04, 2020		Soil	S20-Se13793							X																								
137	JB31_2.4-2.5	Sep 04, 2020		Soil	S20-Se13794							X																								
138	JB31_2.8-2.9	Sep 04, 2020		Soil	S20-Se13795							X																								
139	JB35_0-0.1	Sep 04, 2020		Soil	S20-Se13796							X																								
140	JB35_0.5-0.6	Sep 04, 2020		Soil	S20-Se13797							X																								
141	JB35_1.0-1.1	Sep 04, 2020		Soil	S20-Se13798							X																								
142	JB35_2.4-2.5	Sep 04, 2020		Soil	S20-Se13799							X																								
143	JB35_3.1-3.2	Sep 04, 2020		Soil	S20-Se13800							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
144	JB35_5.0-5.1	Sep 04, 2020		Soil	S20-Se13801							X																								
145	JB36_1.0-1.1	Sep 04, 2020		Soil	S20-Se13802							X																								
146	JB36_2.0-2.1	Sep 04, 2020		Soil	S20-Se13803							X																								
147	JB36_3.2-3.3	Sep 04, 2020		Soil	S20-Se13804							X																								
148	JB37_0.6-0.7	Sep 04, 2020		Soil	S20-Se13805							X																								
149	JB37_1.5-1.6	Sep 04, 2020		Soil	S20-Se13806							X																								
150	JB37_2.6-2.7	Sep 04, 2020		Soil	S20-Se13807							X																								
151	JB37_4.1-4.2	Sep 04, 2020		Soil	S20-Se13808							X																								
152	JB38_1.0-1.1	Sep 04, 2020		Soil	S20-Se13809							X																								
153	JB38_2.0-2.1	Sep 04, 2020		Soil	S20-Se13810							X																								
154	JB38_3.0-3.1	Sep 04, 2020		Soil	S20-Se13811							X																								
155	JB39_0.9-1.0	Sep 04, 2020		Soil	S20-Se13812							X																								
156	JB41_1.0-1.1	Sep 05, 2020		Soil	S20-Se13813							X																								

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Fax:

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Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
157	JB42_1.0-1.1	Sep 05, 2020		Soil	S20-Se13814							X																							
158	JB43_0.5-0.6	Sep 05, 2020		Soil	S20-Se13815							X																							
159	JB43A_0.4-0.5	Sep 05, 2020		Soil	S20-Se13816							X																							
160	JB43A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13817							X																							
161	JB44_0.3-0.4	Sep 05, 2020		Soil	S20-Se13818							X																							
162	JB44_1.0-1.1	Sep 05, 2020		Soil	S20-Se13819							X																							
163	JB45_0.5-0.6	Sep 05, 2020		Soil	S20-Se13820							X																							
164	JB49_0.5-0.6	Sep 05, 2020		Soil	S20-Se13821							X																							
165	JB49_2.0-2.1	Sep 05, 2020		Soil	S20-Se13822							X																							
166	JB49_2.5-2.6	Sep 05, 2020		Soil	S20-Se13823							X																							
167	JB50_0.3-0.4	Sep 04, 2020		Soil	S20-Se13824							X																							
168	JB50_0.5-0.6	Sep 04, 2020		Soil	S20-Se13825							X																							
169	JB50_2.4-2.5	Sep 04, 2020		Soil	S20-Se13826							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
170	JB50_3.0-3.1	Sep 04, 2020		Soil	S20-Se13827							X																							
171	JB50_4.8-4.9	Sep 04, 2020		Soil	S20-Se13828							X																							
172	JB63_0.5-0.6	Sep 04, 2020		Soil	S20-Se13829							X																							
173	JB63_1.5-1.6	Sep 04, 2020		Soil	S20-Se13830							X																							
174	JB63_2.6-2.7	Sep 04, 2020		Soil	S20-Se13831							X																							
175	JB65_0.2-0.3	Sep 04, 2020		Soil	S20-Se13832							X																							
176	JB65_1.0-1.1	Sep 04, 2020		Soil	S20-Se13833							X																							
177	JB65_1.2-1.3	Sep 04, 2020		Soil	S20-Se13834							X																							
178	JB65_2.1-2.2	Sep 04, 2020		Soil	S20-Se13835							X																							
179	JB67_0-0.1	Sep 05, 2020		Soil	S20-Se13836							X																							
180	JB67_0.5-0.6	Sep 05, 2020		Soil	S20-Se13837							X																							
181	JB67_1.0-1.1	Sep 05, 2020		Soil	S20-Se13838							X																							
182	JB67_1.5-1.6	Sep 05, 2020		Soil	S20-Se13839							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
183	JB67_2.0-2.1	Sep 05, 2020		Soil	S20-Se13840							X																							
184	JB68_0.05-0.1	Sep 04, 2020		Soil	S20-Se13841							X																							
185	JB68_0.5-0.6	Sep 04, 2020		Soil	S20-Se13842							X																							
186	JB68_2.3-2.4	Sep 04, 2020		Soil	S20-Se13843							X																							
187	JB69_0.05-0.1	Sep 04, 2020		Soil	S20-Se13844							X																							
188	JB69_0.4-0.5	Sep 04, 2020		Soil	S20-Se13845							X																							
189	JB69_0.7-0.8	Sep 04, 2020		Soil	S20-Se13846							X																							
190	JB69_3.3-3.4	Sep 04, 2020		Soil	S20-Se13847							X																							
191	JB69_3.8-3.9	Sep 04, 2020		Soil	S20-Se13848							X																							
192	JB70_0.5-0.6	Sep 05, 2020		Soil	S20-Se13849							X																							
193	JB70_1.0-1.1	Sep 05, 2020		Soil	S20-Se13850							X																							
194	JB70_2.1-2.2	Sep 05, 2020		Soil	S20-Se13851							X																							
195	JB80_0.5-0.6	Sep 05, 2020		Soil	S20-Se13852							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
196	JB80_1.0-1.1	Sep 05, 2020		Soil	S20-Se13853							X																							
197	JB93_1.0-1.1	Sep 05, 2020		Soil	S20-Se13854							X																							
198	JB93_2.5-2.6	Sep 05, 2020		Soil	S20-Se13855							X																							
199	JB101_1.0-1.1	Sep 05, 2020		Soil	S20-Se13856							X																							
200	JB101_1.5-1.6	Sep 05, 2020		Soil	S20-Se13857							X																							
201	JB101_2.3-2.4	Sep 05, 2020		Soil	S20-Se13858							X																							
202	JB103_0-0.1	Sep 05, 2020		Soil	S20-Se13859							X																							
203	JB104_0.2-0.3	Sep 05, 2020		Soil	S20-Se13860							X																							
204	JB104_1.0-1.1	Sep 05, 2020		Soil	S20-Se13861							X																							
205	JB105_0.5-0.6	Sep 05, 2020		Soil	S20-Se13862							X																							
206	QA20200904-2	Sep 04, 2020		Soil	S20-Se13863							X																							
207	JB99_0.1-0.2	Sep 04, 2020		Soil	S20-Se13864							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
208	JB99_0.4-0.5	Sep 04, 2020		Soil	S20-Se13865							X																								
209	JB98_0.4-0.5	Sep 04, 2020		Soil	S20-Se13866							X																								
210	JB98_0.9-1.0	Sep 04, 2020		Soil	S20-Se13867							X																								
211	JB97_0.1-0.2	Sep 04, 2020		Soil	S20-Se13868							X																								
212	JB97_0.4-0.5	Sep 04, 2020		Soil	S20-Se13869							X																								
213	JB97_0.9-1.0	Sep 04, 2020		Soil	S20-Se13870							X																								
214	JB97_1.9-2.0	Sep 04, 2020		Soil	S20-Se13871							X																								
215	JB96_0.4-0.5	Sep 04, 2020		Soil	S20-Se13872							X																								
216	JB96_0.9-1.0	Sep 04, 2020		Soil	S20-Se13873							X																								
217	JB96_1.9-2.0	Sep 04, 2020		Soil	S20-Se13874							X																								
218	JB95_0.1-0.2	Sep 04, 2020		Soil	S20-Se13875							X																								
219	JB95_1.6-1.7	Sep 04, 2020		Soil	S20-Se13876							X																								
220	JB95_1.9-2.0	Sep 04, 2020		Soil	S20-Se13877							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
221	JB94_0.1-0.2	Sep 04, 2020		Soil	S20-Se13878							X																							
222	JB94_1.9-2.0	Sep 04, 2020		Soil	S20-Se13879							X																							
223	JB89_0.1-0.2	Sep 04, 2020		Soil	S20-Se13880							X																							
224	JB89_1.8-1.9	Sep 04, 2020		Soil	S20-Se13881							X																							
225	JB89_2.3-2.4	Sep 04, 2020		Soil	S20-Se13882							X																							
226	JB52_0.1-0.2	Sep 04, 2020		Soil	S20-Se13883							X																							
227	JB52_0.9-1.0	Sep 04, 2020		Soil	S20-Se13884							X																							
228	JB52A_0.0-0.1	Sep 04, 2020		Soil	S20-Se13885							X																							
229	JB90_0.2-0.3	Sep 04, 2020		Soil	S20-Se13886							X																							
230	JB90_0.5-0.6	Sep 04, 2020		Soil	S20-Se13887							X																							
231	JB34_0.2-0.3	Sep 04, 2020		Soil	S20-Se13888							X																							
232	JB34_0.6-0.7	Sep 04, 2020		Soil	S20-Se13889							X																							
233	JB34_1.2-1.3	Sep 04, 2020		Soil	S20-Se13890							X																							

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
234	JB91_0-0.1	Sep 04, 2020		Soil	S20-Se13891							X																								
235	JB91_0.5-0.6	Sep 04, 2020		Soil	S20-Se13892							X																								
236	JB91_1.8-1.9	Sep 04, 2020		Soil	S20-Se13893							X																								
237	JB60_0.3-0.4	Sep 04, 2020		Soil	S20-Se13894			X														X			X		X			X					
238	JB60_0.8-0.9	Sep 04, 2020		Soil	S20-Se13895							X																								
239	JB60_1.1-1.2	Sep 04, 2020		Soil	S20-Se13896							X																								
Test Counts						11	1	44	4	1	11	155	11	1	11	1	4	21	23	1	29	29	1	22	22	68	68	4	8	43	1	2	8	1	1

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	742676-AID
Project Name	PLE
Project ID	58238
Received Date	Sep 07, 2020
Date Reported	Sep 16, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PLE
Project ID 58238
Date Sampled Sep 04, 2020 to Sep 05, 2020
Report 742676-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB01_0.4-0.5	20-Se13658	Sep 05, 2020	Approximate Sample 904g Sample consisted of: Brown coarse-grained soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB02_0.5-0.6	20-Se13659	Sep 05, 2020	Approximate Sample 727g Sample consisted of: Brown coarse-grained soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB03_0.3-0.4	20-Se13660	Sep 05, 2020	Approximate Sample 776g Sample consisted of: Brown coarse-grained soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB03_2.4-2.5	20-Se13661	Sep 05, 2020	Approximate Sample 779g Sample consisted of: Brown fine-grained clayey soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB06_2.0-2.1	20-Se13662	Sep 05, 2020	Approximate Sample 827g Sample consisted of: Brown fine-grained clayey soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB07_0-0.1	20-Se13663	Sep 05, 2020	Approximate Sample 1100g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB13_0.5-0.6	20-Se13665	Sep 05, 2020	Approximate Sample 697g Sample consisted of: Brown fine-grained clayey soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14_0.5-0.6	20-Se13666	Sep 05, 2020	Approximate Sample 759g Sample consisted of: Brown coarse-grained soil, cement, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB14A_0.5-0.6	20-Se13667	Sep 05, 2020	Approximate Sample 785g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14A_1.0-1.1	20-Se13668	Sep 05, 2020	Approximate Sample 678g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14B_0-0.1	20-Se13669	Sep 05, 2020	Approximate Sample 812g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14B_1.5-1.6	20-Se13670	Sep 05, 2020	Approximate Sample 615g Sample consisted of: Brown coarse-grained soil, bitumen, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB14D_0-0.1	20-Se13671	Sep 05, 2020	Approximate Sample 908g Sample consisted of: Brown coarse-grained soil, plaster, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB21_0-0.1	20-Se13674	Sep 05, 2020	Approximate Sample 511g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB22A_0-0.1	20-Se13675	Sep 05, 2020	Approximate Sample 578g Sample consisted of: Brown coarse-grained soil, corroded metal, bitumen, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB22A_FRAG	20-Se13676	Sep 05, 2020	Approximate Sample 19g / 68x50x5mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
JB22B_0-0.1	20-Se13677	Sep 05, 2020	Approximate Sample 493g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB27_0-0.1	20-Se13678	Sep 04, 2020	Approximate Sample 737g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB30_3.0-3.1	20-Se13685	Sep 04, 2020	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB31_0.05-0.1	20-Se13686	Sep 04, 2020	Approximate Sample 739g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB35_4.0-4.1	20-Se13689	Sep 04, 2020	Approximate Sample 435g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB43A_0-0.1	20-Se13699	Sep 05, 2020	Approximate Sample 777g Sample consisted of: Brown coarse-grained soil, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB44_0-0.1	20-Se13700	Sep 05, 2020	Approximate Sample 726g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB49_0.05-0.1	20-Se13702	Sep 05, 2020	Approximate Sample 761g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB50_3.3-3.4	20-Se13704	Sep 04, 2020	Approximate Sample 457g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB65_0.05-0.1	20-Se13707	Sep 04, 2020	Approximate Sample 594g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB67_3.0-3.1	20-Se13708	Sep 05, 2020	Approximate Sample 603g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB70_0-0.1	20-Se13710	Sep 05, 2020	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB80_0-0.1	20-Se13711	Sep 05, 2020	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA20200905-1	20-Se13718	Sep 05, 2020	Approximate Sample 755g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA20200905-CK1	20-Se13720	Sep 05, 2020	Approximate Sample 769g Sample consisted of: Brown fine-grained clayey soil, shale and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA20200905-CK2	20-Se13721	Sep 05, 2020	Approximate Sample 901g Sample consisted of: Brown coarse-grained soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB100_0.0-0.1	20-Se13726	Sep 04, 2020	Approximate Sample 723g Sample consisted of: Brown coarse-grained soil, cement, brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB100_0.4-0.5	20-Se13727	Sep 04, 2020	Approximate Sample 624g Sample consisted of: Tan fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB100_1.2-1.3	20-Se13728	Sep 04, 2020	Approximate Sample 689g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB98_0.0-0.1	20-Se13729	Sep 04, 2020	Approximate Sample 648g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB98_1.9-2.0	20-Se13730	Sep 04, 2020	Approximate Sample 673g Sample consisted of: Brown coarse-grained soil, brick, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB96_0.0-0.1	20-Se13731	Sep 04, 2020	Approximate Sample 743g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB95_0.9-1.0	20-Se13732	Sep 04, 2020	Approximate Sample 701g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	FA: Amosite asbestos detected in soft insulation plaster material. Approximate Raw weight of FA = 0.17g Estimated asbestos content in FA = 0.12g* AF: Amosite asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.0028g* Estimated asbestos content in AF = 0.0028g* Total estimated asbestos content in FA and AF = 0.12g* Total estimated asbestos concentration in FA and AF = 0.017% w/w* Organic fibre detected. No trace asbestos detected.
JB94_0.9-1.0	20-Se13733	Sep 04, 2020	Approximate Sample 539g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB94_2.4-2.5	20-Se13734	Sep 04, 2020	Approximate Sample 647g Sample consisted of: Brown fine-grained clayey soil, brick, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB89_0.4-0.5	20-Se13735	Sep 04, 2020	Approximate Sample 739g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB52_0.5-0.6	20-Se13736	Sep 04, 2020	Approximate Sample 772g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB89A_0.2-0.3	20-Se13737	Sep 04, 2020	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil, brick, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB98-A	20-Se13738	Sep 04, 2020	Approximate Sample 32g / 80x55x6mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
JB96-A	20-Se13739	Sep 04, 2020	Approximate Sample 23g / 65x45x6mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
JB94-A	20-Se13740	Sep 04, 2020	Approximate Sample 5g / 40x20x6mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
JB60_0.3-0.4	20-Se13894	Sep 04, 2020	Approximate Sample 908g Sample consisted of: Brown coarse-grained soil, brick, plaster, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 08, 2020	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 08, 2020	Indefinite

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Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271		X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																		X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																														
Newcastle Laboratory																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	JB01_0.4-0.5	Sep 05, 2020		Soil	S20-Se13658			X																X			X				
2	JB02_0.5-0.6	Sep 05, 2020		Soil	S20-Se13659			X													X				X			X				
3	JB03_0.3-0.4	Sep 05, 2020		Soil	S20-Se13660			X													X				X			X				
4	JB03_2.4-2.5	Sep 05, 2020		Soil	S20-Se13661			X													X				X			X				
5	JB06_2.0-2.1	Sep 05, 2020		Soil	S20-Se13662			X																	X			X			X	
6	JB07_0-0.1	Sep 05, 2020		Soil	S20-Se13663			X									X	X							X							
7	JB08_1.5-1.6	Sep 05, 2020		Soil	S20-Se13664												X	X							X							
8	JB13_0.5-0.6	Sep 05, 2020		Soil	S20-Se13665			X																	X			X				
9	JB14_0.5-0.6	Sep 05, 2020		Soil	S20-Se13666			X													X				X			X			X	

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
10	JB14A_0.5-0.6	Sep 05, 2020		Soil	S20-Se13667			X														X					X			X					
11	JB14A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13668			X																												
12	JB14B_0-0.1	Sep 05, 2020		Soil	S20-Se13669			X																			X			X						
13	JB14B_1.5-1.6	Sep 05, 2020		Soil	S20-Se13670			X									X	X	X								X	X								
14	JB14D_0-0.1	Sep 05, 2020		Soil	S20-Se13671			X										X	X								X									
15	JB20_0-0.1	Sep 05, 2020		Soil	S20-Se13672					X																										
16	JB20_0.2-0.3	Sep 05, 2020		Soil	S20-Se13673																	X					X			X						
17	JB21_0-0.1	Sep 05, 2020		Soil	S20-Se13674			X											X								X									
18	JB22A_0-0.1	Sep 05, 2020		Soil	S20-Se13675	X		X			X		X		X							X			X		X			X						
19	JB22A_FRAG	Sep 05, 2020		Building Materials	S20-Se13676				X																											
20	JB22B_0-0.1	Sep 05, 2020		Soil	S20-Se13677			X										X	X								X									
21	JB27_0-0.1	Sep 04, 2020		Soil	S20-Se13678	X		X			X		X		X		X					X			X		X	X		X						

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Project Name:	PLE		
Project ID:	58238		

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
22	JB27_0.5-0.6	Sep 04, 2020		Soil	S20-Se13679	X					X		X		X			X	X								X								
23	JB28_0.2-0.3	Sep 05, 2020		Soil	S20-Se13680																	X			X			X		X	X			X		
24	JB28_0.5-0.6	Sep 05, 2020		Soil	S20-Se13681																							X			X					
25	JB28_1.5-1.6	Sep 05, 2020		Soil	S20-Se13682																	X			X			X		X	X					
26	JB29_0.1-0.2	Sep 05, 2020		Soil	S20-Se13683																							X			X					
27	JB30_0.05-0.1	Sep 05, 2020		Soil	S20-Se13684													X	X									X								
28	JB30_3.0-3.1	Sep 04, 2020		Soil	S20-Se13685			X																				X			X					
29	JB31_0.05-0.1	Sep 04, 2020		Soil	S20-Se13686	X		X			X		X		X							X			X			X		X	X			X		
30	JB31_0.9-0.1	Sep 04, 2020		Soil	S20-Se13687																							X			X					
31	JB35_2.1-2.2	Sep 04, 2020		Soil	S20-Se13688	X					X		X		X										X			X			X					
32	JB35_4.0-4.1	Sep 04, 2020		Soil	S20-Se13689			X																				X			X					
33	JB36_0.05-0.1	Sep 04, 2020		Soil	S20-Se13690	X					X		X		X													X			X					
34	JB37_0.05-0.1	Sep 04, 2020		Soil	S20-Se13691																							X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
35	JB37_4.0-4.1	Sep 04, 2020		Soil	S20-Se13692																					X			X						
36	JB38_0.1-0.2	Sep 04, 2020		Soil	S20-Se13693																	X			X		X			X						
37	JB38_1.8-1.9	Sep 04, 2020		Soil	S20-Se13694																						X			X						
38	JB39_0.2-0.3	Sep 04, 2020		Soil	S20-Se13695	X					X		X		X							X			X		X		X	X					
39	JB41_0.1-0.2	Sep 05, 2020		Soil	S20-Se13696	X					X		X		X							X			X		X		X	X			X		
40	JB42_0.05-0.1	Sep 05, 2020		Soil	S20-Se13697																	X			X		X			X						
41	JB43_0-0.1	Sep 05, 2020		Soil	S20-Se13698													X	X								X									
42	JB43A_0-0.1	Sep 05, 2020		Soil	S20-Se13699			X																			X			X						
43	JB44_0-0.1	Sep 05, 2020		Soil	S20-Se13700			X										X	X								X									
44	JB45_0.05-0.1	Sep 05, 2020		Soil	S20-Se13701													X	X								X									
45	JB49_0.05-0.1	Sep 05, 2020		Soil	S20-Se13702			X										X	X								X									
46	JB50_0.1-0.2	Sep 04, 2020		Soil	S20-Se13703																				X		X			X						
47	JB50_3.3-3.4	Sep 04, 2020		Soil	S20-Se13704			X										X	X			X					X									

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
48	JB63_0.1-0.2	Sep 04, 2020		Soil	S20-Se13705	X					X		X		X							X			X		X		X	X			X		
49	JB63_2.1-2.2	Sep 04, 2020		Soil	S20-Se13706																				X		X		X			X			
50	JB65_0.05-0.1	Sep 04, 2020		Soil	S20-Se13707			X																			X			X					
51	JB67_3.0-3.1	Sep 05, 2020		Soil	S20-Se13708			X									X	X	X			X					X	X							
52	JB68_1.3-1.4	Sep 04, 2020		Soil	S20-Se13709																	X					X			X					
53	JB70_0-0.1	Sep 05, 2020		Soil	S20-Se13710			X										X	X								X								
54	JB80_0-0.1	Sep 05, 2020		Soil	S20-Se13711			X										X	X								X								
55	JB93_0.4-0.5	Sep 05, 2020		Soil	S20-Se13712																	X			X		X		X	X					
56	JB93_2.0-2.1	Sep 05, 2020		Soil	S20-Se13713														X						X		X					X			
57	JB101_0.15-0.2	Sep 05, 2020		Soil	S20-Se13714													X	X								X								
58	JB103_0.4-0.5	Sep 05, 2020		Soil	S20-Se13715																				X		X			X					
59	JB105_0.05-	Sep 05, 2020		Soil	S20-Se13716																	X			X		X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
	0.1																																			
60	QA20200904-1	Sep 04, 2020		Soil	S20-Se13717	X					X		X		X							X					X				X				
61	QA20200905-1	Sep 05, 2020		Soil	S20-Se13718	X		X			X		X		X							X			X		X				X				
62	QA20200905-2	Sep 05, 2020		Soil	S20-Se13719																					X							X		
63	QA20200905-CK1	Sep 05, 2020		Soil	S20-Se13720			X														X					X				X				
64	QA20200905-CK2	Sep 05, 2020		Soil	S20-Se13721			X														X					X				X				
65	RIN02	Sep 05, 2020		Water	S20-Se13722		X							X		X					X			X				X		X		X			
66	RIN03	Sep 05, 2020		Water	S20-Se13723																X		X	X											X
67	TS	Sep 03, 2020		Water	S20-Se13724																													X		

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
68	TB	Sep 03, 2020		Water	S20-Se13725															X															
69	JB100_0.0-0.1	Sep 04, 2020		Soil	S20-Se13726			X										X	X								X								
70	JB100_0.4-0.5	Sep 04, 2020		Soil	S20-Se13727			X										X	X								X								
71	JB100_1.2-1.3	Sep 04, 2020		Soil	S20-Se13728			X										X	X								X								
72	JB98_0.0-0.1	Sep 04, 2020		Soil	S20-Se13729			X									X	X	X			X					X	X							
73	JB98_1.9-2.0	Sep 04, 2020		Soil	S20-Se13730			X										X	X								X								
74	JB96_0.0-0.1	Sep 04, 2020		Soil	S20-Se13731			X																											
75	JB95_0.9-1.0	Sep 04, 2020		Soil	S20-Se13732			X																											
76	JB94_0.9-1.0	Sep 04, 2020		Soil	S20-Se13733			X																											
77	JB94_2.4-2.5	Sep 04, 2020		Soil	S20-Se13734			X																											
78	JB89_0.4-0.5	Sep 04, 2020		Soil	S20-Se13735			X																											
79	JB52_0.5-0.6	Sep 04, 2020		Soil	S20-Se13736			X																	X		X			X					
80	JB89A_0.2-0.3	Sep 04, 2020		Soil	S20-Se13737			X																											

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
81	JB98-A	Sep 04, 2020		Building Materials	S20-Se13738				X																											
82	JB96-A	Sep 04, 2020		Building Materials	S20-Se13739				X																											
83	JB94-A	Sep 04, 2020		Building Materials	S20-Se13740				X																											
84	JB01_0-0.1	Sep 05, 2020		Soil	S20-Se13741							X																								
85	JB01_1.5-1.6	Sep 05, 2020		Soil	S20-Se13742							X																								
86	JB02_0-0.1	Sep 05, 2020		Soil	S20-Se13743							X																								
87	JB02_1.5-1.6	Sep 05, 2020		Soil	S20-Se13744							X																								
88	JB02_2.6-2.7	Sep 05, 2020		Soil	S20-Se13745							X																								
89	JB03_0-0.1	Sep 05, 2020		Soil	S20-Se13746							X																								
90	JB03_1.0-1.1	Sep 05, 2020		Soil	S20-Se13747							X																								
91	JB03_1.3-1.4	Sep 05, 2020		Soil	S20-Se13748							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
92	JB03_3.0-3.1	Sep 05, 2020		Soil	S20-Se13749							X																								
93	JB06_0-0.1	Sep 05, 2020		Soil	S20-Se13750							X																								
94	JB06_0.5-0.6	Sep 05, 2020		Soil	S20-Se13751							X																								
95	JB06_1.1-1.2	Sep 05, 2020		Soil	S20-Se13752							X																								
96	JB06_2.8-2.9	Sep 05, 2020		Soil	S20-Se13753							X																								
97	JB07_0.5-0.6	Sep 05, 2020		Soil	S20-Se13754							X																								
98	JB07_1.5-1.6	Sep 05, 2020		Soil	S20-Se13755							X																								
99	JB07_2.7-2.8	Sep 05, 2020		Soil	S20-Se13756							X																								
100	JB08_0-0.1	Sep 05, 2020		Soil	S20-Se13757							X																								
101	JB08_0.5-0.6	Sep 05, 2020		Soil	S20-Se13758							X																								
102	JB08_2.3-2.3	Sep 05, 2020		Soil	S20-Se13759							X																								
103	JB09_0-0.1	Sep 05, 2020		Soil	S20-Se13760							X																								
104	JB09_0.5-0.6	Sep 05, 2020		Soil	S20-Se13761							X																								

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Project Name:	PLE		
Project ID:	58238		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
105	JB09_1.1-1.2	Sep 05, 2020		Soil	S20-Se13762							X																								
106	JB09_1.6-1.7	Sep 05, 2020		Soil	S20-Se13763							X																								
107	JB13_0-0.1	Sep 05, 2020		Soil	S20-Se13764							X																								
108	JB14_0-0.1	Sep 05, 2020		Soil	S20-Se13765							X																								
109	JB14_1.0-1.1	Sep 05, 2020		Soil	S20-Se13766							X																								
110	JB14_1.5-1.6	Sep 05, 2020		Soil	S20-Se13767							X																								
111	JB14_1.6-1.7	Sep 05, 2020		Soil	S20-Se13768							X																								
112	JB14A_0-0.1	Sep 05, 2020		Soil	S20-Se13769							X																								
113	JB14A_1.5-1.6	Sep 05, 2020		Soil	S20-Se13770							X																								
114	JB14A_1.8-1.9	Sep 05, 2020		Soil	S20-Se13771							X																								
115	JB14B_0.5-0.6	Sep 05, 2020		Soil	S20-Se13772							X																								
116	JB14B_1.7-1.8	Sep 05, 2020		Soil	S20-Se13773							X																								
117	JB14C_0-0.1	Sep 05, 2020		Soil	S20-Se13774							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
118	JB14C_0.5-0.6	Sep 05, 2020		Soil	S20-Se13775							X																							
119	JB14C_1.0-1.1	Sep 05, 2020		Soil	S20-Se13776							X																							
120	JB14C_1.5-1.6	Sep 05, 2020		Soil	S20-Se13777							X																							
121	JB14D_0.5-0.6	Sep 05, 2020		Soil	S20-Se13778							X																							
122	JB14D_1.0-1.1	Sep 05, 2020		Soil	S20-Se13779							X																							
123	JB14D_1.3-1.4	Sep 05, 2020		Soil	S20-Se13780							X																							
124	JB21_0.2-0.3	Sep 05, 2020		Soil	S20-Se13781							X																							
125	JB22B_0.3-0.4	Sep 05, 2020		Soil	S20-Se13782							X																							
126	JB27_1.0-1.1	Sep 04, 2020		Soil	S20-Se13783							X																							
127	JB28_0.7-0.8	Sep 05, 2020		Soil	S20-Se13784							X																							
128	JB28_2.1-2.2	Sep 05, 2020		Soil	S20-Se13785							X																							
129	JB29_0.5-0.6	Sep 05, 2020		Soil	S20-Se13786							X																							
130	JB29_1.6-1.7	Sep 05, 2020		Soil	S20-Se13787							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
131	JB30_0.5-0.6	Sep 05, 2020		Soil	S20-Se13788							X																								
132	JB30_1.5-1.6	Sep 04, 2020		Soil	S20-Se13789							X																								
133	JB30_2.1-2.2	Sep 04, 2020		Soil	S20-Se13790							X																								
134	JB30_3.7-3.8	Sep 04, 2020		Soil	S20-Se13791							X																								
135	JB31_0.4-0.5	Sep 04, 2020		Soil	S20-Se13792							X																								
136	JB31_2.0-2.1	Sep 04, 2020		Soil	S20-Se13793							X																								
137	JB31_2.4-2.5	Sep 04, 2020		Soil	S20-Se13794							X																								
138	JB31_2.8-2.9	Sep 04, 2020		Soil	S20-Se13795							X																								
139	JB35_0-0.1	Sep 04, 2020		Soil	S20-Se13796							X																								
140	JB35_0.5-0.6	Sep 04, 2020		Soil	S20-Se13797							X																								
141	JB35_1.0-1.1	Sep 04, 2020		Soil	S20-Se13798							X																								
142	JB35_2.4-2.5	Sep 04, 2020		Soil	S20-Se13799							X																								
143	JB35_3.1-3.2	Sep 04, 2020		Soil	S20-Se13800							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
144	JB35_5.0-5.1	Sep 04, 2020		Soil	S20-Se13801							X																								
145	JB36_1.0-1.1	Sep 04, 2020		Soil	S20-Se13802							X																								
146	JB36_2.0-2.1	Sep 04, 2020		Soil	S20-Se13803							X																								
147	JB36_3.2-3.3	Sep 04, 2020		Soil	S20-Se13804							X																								
148	JB37_0.6-0.7	Sep 04, 2020		Soil	S20-Se13805							X																								
149	JB37_1.5-1.6	Sep 04, 2020		Soil	S20-Se13806							X																								
150	JB37_2.6-2.7	Sep 04, 2020		Soil	S20-Se13807							X																								
151	JB37_4.1-4.2	Sep 04, 2020		Soil	S20-Se13808							X																								
152	JB38_1.0-1.1	Sep 04, 2020		Soil	S20-Se13809							X																								
153	JB38_2.0-2.1	Sep 04, 2020		Soil	S20-Se13810							X																								
154	JB38_3.0-3.1	Sep 04, 2020		Soil	S20-Se13811							X																								
155	JB39_0.9-1.0	Sep 04, 2020		Soil	S20-Se13812							X																								
156	JB41_1.0-1.1	Sep 05, 2020		Soil	S20-Se13813							X																								

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Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
157	JB42_1.0-1.1	Sep 05, 2020		Soil	S20-Se13814							X																								
158	JB43_0.5-0.6	Sep 05, 2020		Soil	S20-Se13815							X																								
159	JB43A_0.4-0.5	Sep 05, 2020		Soil	S20-Se13816							X																								
160	JB43A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13817							X																								
161	JB44_0.3-0.4	Sep 05, 2020		Soil	S20-Se13818							X																								
162	JB44_1.0-1.1	Sep 05, 2020		Soil	S20-Se13819							X																								
163	JB45_0.5-0.6	Sep 05, 2020		Soil	S20-Se13820							X																								
164	JB49_0.5-0.6	Sep 05, 2020		Soil	S20-Se13821							X																								
165	JB49_2.0-2.1	Sep 05, 2020		Soil	S20-Se13822							X																								
166	JB49_2.5-2.6	Sep 05, 2020		Soil	S20-Se13823							X																								
167	JB50_0.3-0.4	Sep 04, 2020		Soil	S20-Se13824							X																								
168	JB50_0.5-0.6	Sep 04, 2020		Soil	S20-Se13825							X																								
169	JB50_2.4-2.5	Sep 04, 2020		Soil	S20-Se13826							X																								

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Project Name: PLE
Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
170	JB50_3.0-3.1	Sep 04, 2020		Soil	S20-Se13827							X																								
171	JB50_4.8-4.9	Sep 04, 2020		Soil	S20-Se13828							X																								
172	JB63_0.5-0.6	Sep 04, 2020		Soil	S20-Se13829							X																								
173	JB63_1.5-1.6	Sep 04, 2020		Soil	S20-Se13830							X																								
174	JB63_2.6-2.7	Sep 04, 2020		Soil	S20-Se13831							X																								
175	JB65_0.2-0.3	Sep 04, 2020		Soil	S20-Se13832							X																								
176	JB65_1.0-1.1	Sep 04, 2020		Soil	S20-Se13833							X																								
177	JB65_1.2-1.3	Sep 04, 2020		Soil	S20-Se13834							X																								
178	JB65_2.1-2.2	Sep 04, 2020		Soil	S20-Se13835							X																								
179	JB67_0-0.1	Sep 05, 2020		Soil	S20-Se13836							X																								
180	JB67_0.5-0.6	Sep 05, 2020		Soil	S20-Se13837							X																								
181	JB67_1.0-1.1	Sep 05, 2020		Soil	S20-Se13838							X																								
182	JB67_1.5-1.6	Sep 05, 2020		Soil	S20-Se13839							X																								

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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
183	JB67_2.0-2.1	Sep 05, 2020		Soil	S20-Se13840							X																								
184	JB68_0.05-0.1	Sep 04, 2020		Soil	S20-Se13841							X																								
185	JB68_0.5-0.6	Sep 04, 2020		Soil	S20-Se13842							X																								
186	JB68_2.3-2.4	Sep 04, 2020		Soil	S20-Se13843							X																								
187	JB69_0.05-0.1	Sep 04, 2020		Soil	S20-Se13844							X																								
188	JB69_0.4-0.5	Sep 04, 2020		Soil	S20-Se13845							X																								
189	JB69_0.7-0.8	Sep 04, 2020		Soil	S20-Se13846							X																								
190	JB69_3.3-3.4	Sep 04, 2020		Soil	S20-Se13847							X																								
191	JB69_3.8-3.9	Sep 04, 2020		Soil	S20-Se13848							X																								
192	JB70_0.5-0.6	Sep 05, 2020		Soil	S20-Se13849							X																								
193	JB70_1.0-1.1	Sep 05, 2020		Soil	S20-Se13850							X																								
194	JB70_2.1-2.2	Sep 05, 2020		Soil	S20-Se13851							X																								
195	JB80_0.5-0.6	Sep 05, 2020		Soil	S20-Se13852							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
196	JB80_1.0-1.1	Sep 05, 2020		Soil	S20-Se13853							X																								
197	JB93_1.0-1.1	Sep 05, 2020		Soil	S20-Se13854							X																								
198	JB93_2.5-2.6	Sep 05, 2020		Soil	S20-Se13855							X																								
199	JB101_1.0-1.1	Sep 05, 2020		Soil	S20-Se13856							X																								
200	JB101_1.5-1.6	Sep 05, 2020		Soil	S20-Se13857							X																								
201	JB101_2.3-2.4	Sep 05, 2020		Soil	S20-Se13858							X																								
202	JB103_0-0.1	Sep 05, 2020		Soil	S20-Se13859							X																								
203	JB104_0.2-0.3	Sep 05, 2020		Soil	S20-Se13860							X																								
204	JB104_1.0-1.1	Sep 05, 2020		Soil	S20-Se13861							X																								
205	JB105_0.5-0.6	Sep 05, 2020		Soil	S20-Se13862							X																								
206	QA20200904-2	Sep 04, 2020		Soil	S20-Se13863							X																								
207	JB99_0.1-0.2	Sep 04, 2020		Soil	S20-Se13864							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
208	JB99_0.4-0.5	Sep 04, 2020		Soil	S20-Se13865							X																								
209	JB98_0.4-0.5	Sep 04, 2020		Soil	S20-Se13866							X																								
210	JB98_0.9-1.0	Sep 04, 2020		Soil	S20-Se13867							X																								
211	JB97_0.1-0.2	Sep 04, 2020		Soil	S20-Se13868							X																								
212	JB97_0.4-0.5	Sep 04, 2020		Soil	S20-Se13869							X																								
213	JB97_0.9-1.0	Sep 04, 2020		Soil	S20-Se13870							X																								
214	JB97_1.9-2.0	Sep 04, 2020		Soil	S20-Se13871							X																								
215	JB96_0.4-0.5	Sep 04, 2020		Soil	S20-Se13872							X																								
216	JB96_0.9-1.0	Sep 04, 2020		Soil	S20-Se13873							X																								
217	JB96_1.9-2.0	Sep 04, 2020		Soil	S20-Se13874							X																								
218	JB95_0.1-0.2	Sep 04, 2020		Soil	S20-Se13875							X																								
219	JB95_1.6-1.7	Sep 04, 2020		Soil	S20-Se13876							X																								
220	JB95_1.9-2.0	Sep 04, 2020		Soil	S20-Se13877							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
221	JB94_0.1-0.2	Sep 04, 2020		Soil	S20-Se13878							X																								
222	JB94_1.9-2.0	Sep 04, 2020		Soil	S20-Se13879							X																								
223	JB89_0.1-0.2	Sep 04, 2020		Soil	S20-Se13880							X																								
224	JB89_1.8-1.9	Sep 04, 2020		Soil	S20-Se13881							X																								
225	JB89_2.3-2.4	Sep 04, 2020		Soil	S20-Se13882							X																								
226	JB52_0.1-0.2	Sep 04, 2020		Soil	S20-Se13883							X																								
227	JB52_0.9-1.0	Sep 04, 2020		Soil	S20-Se13884							X																								
228	JB52A_0.0-0.1	Sep 04, 2020		Soil	S20-Se13885							X																								
229	JB90_0.2-0.3	Sep 04, 2020		Soil	S20-Se13886							X																								
230	JB90_0.5-0.6	Sep 04, 2020		Soil	S20-Se13887							X																								
231	JB34_0.2-0.3	Sep 04, 2020		Soil	S20-Se13888							X																								
232	JB34_0.6-0.7	Sep 04, 2020		Soil	S20-Se13889							X																								
233	JB34_1.2-1.3	Sep 04, 2020		Soil	S20-Se13890							X																								

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Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
234	JB91_0-0.1	Sep 04, 2020		Soil	S20-Se13891							X																								
235	JB91_0.5-0.6	Sep 04, 2020		Soil	S20-Se13892							X																								
236	JB91_1.8-1.9	Sep 04, 2020		Soil	S20-Se13893							X																								
237	JB60_0.3-0.4	Sep 04, 2020		Soil	S20-Se13894			X														X			X		X			X					
238	JB60_0.8-0.9	Sep 04, 2020		Soil	S20-Se13895							X																								
239	JB60_1.1-1.2	Sep 04, 2020		Soil	S20-Se13896							X																								
Test Counts						11	1	44	4	1	11	155	11	1	11	1	4	21	23	1	29	29	1	22	22	68	68	4	8	43	1	2	8	1	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se13677, S20-Se13689 & S20-Se13704: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742676-S**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			[G01] **JB01_0.4-0.5**	**JB02_0.5-0.6**	**JB03_0.3-0.4**	**JB03_2.4-2.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se13658**	**S20-Se13659**	**S20-Se13660**	**S20-Se13661**
Date Sampled			**Sep 05, 2020**	**Sep 05, 2020**	**Sep 05, 2020**	**Sep 05, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 100	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 250	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 250	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 250	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	56	91	80	59
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 250	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 250	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 500	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 500	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 500	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.5	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.8	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			[G01]JB01_0.4-0.5	JB02_0.5-0.6	JB03_0.3-0.4	JB03_2.4-2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13658	S20-Se13659	S20-Se13660	S20-Se13661
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	4.3	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	52	117	107	106
p-Terphenyl-d14 (surr.)	1	%	77	123	113	108
Heavy Metals						
Arsenic	2	mg/kg	2.3	< 2	2.4	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	13	15	25
Copper	5	mg/kg	38	39	32	35
Lead	5	mg/kg	27	8.5	7.2	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	45	26	22	28
Zinc	5	mg/kg	54	38	33	75
% Moisture	1	%	7.9	11	12	9.9
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	101	83	86
Tetrachloro-m-xylene (surr.)	1	%	-	108	95	96

Client Sample ID			[G01]JB01_0.4-0.5	JB02_0.5-0.6	JB03_0.3-0.4	JB03_2.4-2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13658	S20-Se13659	S20-Se13660	S20-Se13661
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	101	83	86
Tetrachloro-m-xylene (surr.)	1	%	-	108	95	96

Client Sample ID			JB06_2.0-2.1	JB07_0-0.1	JB08_1.5-1.6	JB13_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13662	S20-Se13663	S20-Se13664	S20-Se13665
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	29
TRH C15-C28	50	mg/kg	< 50	-	-	82
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	111
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	72	-	-	52
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB06_2.0-2.1	JB07_0-0.1	JB08_1.5-1.6	JB13_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13662	S20-Se13663	S20-Se13664	S20-Se13665
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	3.2	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	110	107	96
p-Terphenyl-d14 (surr.)	1	%	105	108	103	92
Heavy Metals						
Arsenic	2	mg/kg	3.4	< 2	3.6	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	27	26	11
Copper	5	mg/kg	37	42	41	52
Lead	5	mg/kg	23	< 5	24	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	110	33	35
Zinc	5	mg/kg	99	76	83	97
% Moisture	1	%	12	2.0	8.2	7.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	87	-	-	-
13C5-PFPeA (surr.)	1	%	91	-	-	-
13C5-PFHxA (surr.)	1	%	90	-	-	-
13C4-PFHpA (surr.)	1	%	88	-	-	-
13C8-PFOA (surr.)	1	%	96	-	-	-
13C5-PFNA (surr.)	1	%	93	-	-	-
13C6-PFDA (surr.)	1	%	98	-	-	-
13C2-PFUnDA (surr.)	1	%	93	-	-	-
13C2-PFDoDA (surr.)	1	%	96	-	-	-
13C2-PFTeDA (surr.)	1	%	98	-	-	-

Client Sample ID			JB06_2.0-2.1	JB07_0-0.1	JB08_1.5-1.6	JB13_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13662	S20-Se13663	S20-Se13664	S20-Se13665
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	121	-	-	-
D3-N-MeFOSA (surr.)	1	%	108	-	-	-
D5-N-EtFOSA (surr.)	1	%	134	-	-	-
D7-N-MeFOSE (surr.)	1	%	99	-	-	-
D9-N-EtFOSE (surr.)	1	%	96	-	-	-
D5-N-EtFOSAA (surr.)	1	%	91	-	-	-
D3-N-MeFOSAA (surr.)	1	%	89	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	122	-	-	-
18O2-PFHxS (surr.)	1	%	140	-	-	-
13C8-PFOS (surr.)	1	%	139	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	113	-	-	-
13C2-6:2 FTSA (surr.)	1	%	95	-	-	-
13C2-8:2 FTSA (surr.)	1	%	106	-	-	-
13C2-10:2 FTSA (surr.)	1	%	96	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			JB14_0.5-0.6	JB14A_0.5-0.6	JB14B_0-0.1	JB14B_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13666	S20-Se13667	S20-Se13669	S20-Se13670
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	89	86	81	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	118	110	113	106
p-Terphenyl-d14 (surr.)	1	%	124	120	111	106

Client Sample ID			JB14_0.5-0.6	JB14A_0.5-0.6	JB14B_0-0.1	JB14B_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13666	S20-Se13667	S20-Se13669	S20-Se13670
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	15	< 2	< 2	4.0
Cadmium	0.4	mg/kg	1.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	170	32	24	210
Copper	5	mg/kg	180	61	66	60
Lead	5	mg/kg	270	8.3	< 5	12
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	270	130	120	230
Zinc	5	mg/kg	1300	79	68	230
% Moisture	1	%	14	8.4	7.0	14
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	1600
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	7.9
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	93	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	108	105	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			JB14_0.5-0.6	JB14A_0.5-0.6	JB14B_0-0.1	JB14B_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13666	S20-Se13667	S20-Se13669	S20-Se13670
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	93	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	108	105	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	92	-	-	-
13C5-PFPeA (surr.)	1	%	89	-	-	-
13C5-PFHxA (surr.)	1	%	88	-	-	-
13C4-PFHpA (surr.)	1	%	93	-	-	-
13C8-PFOA (surr.)	1	%	94	-	-	-
13C5-PFNA (surr.)	1	%	96	-	-	-
13C6-PFDA (surr.)	1	%	98	-	-	-
13C2-PFUnDA (surr.)	1	%	91	-	-	-
13C2-PFDoDA (surr.)	1	%	97	-	-	-
13C2-PFTeDA (surr.)	1	%	96	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	127	-	-	-
D3-N-MeFOSA (surr.)	1	%	85	-	-	-
D5-N-EtFOSA (surr.)	1	%	117	-	-	-
D7-N-MeFOSE (surr.)	1	%	85	-	-	-
D9-N-EtFOSE (surr.)	1	%	77	-	-	-
D5-N-EtFOSAA (surr.)	1	%	99	-	-	-
D3-N-MeFOSAA (surr.)	1	%	94	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-

Client Sample ID			JB14_0.5-0.6	JB14A_0.5-0.6	JB14B_0-0.1	JB14B_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13666	S20-Se13667	S20-Se13669	S20-Se13670
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	139	-	-	-
18O2-PFHxS (surr.)	1	%	145	-	-	-
13C8-PFOS (surr.)	1	%	131	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	128	-	-	-
13C2-6:2 FTSA (surr.)	1	%	92	-	-	-
13C2-8:2 FTSA (surr.)	1	%	115	-	-	-
13C2-10:2 FTSA (surr.)	1	%	102	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	39

Client Sample ID			JB14D_0-0.1	JB20_0.2-0.3	JB21_0-0.1	JB22A_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13671	S20-Se13673	S20-Se13674	S20-Se13675
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	94
TRH C29-C36	50	mg/kg	-	< 50	-	120
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	214
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	77	-	88

Client Sample ID			JB14D_0-0.1	JB20_0.2-0.3	JB21_0-0.1	JB22A_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13671	S20-Se13673	S20-Se13674	S20-Se13675
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	180
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	180
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	100	-	120
p-Terphenyl-d14 (surr.)	1	%	102	116	-	139
Heavy Metals						
Aluminium	10	mg/kg	-	-	-	31000
Arsenic	2	mg/kg	3.4	2.2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	850	460	230
Copper	5	mg/kg	31	68	75	70
Iron	20	mg/kg	-	-	-	76000
Lead	5	mg/kg	10	47	6.5	270
Manganese	5	mg/kg	-	-	-	1100
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	54	450	360	340
Zinc	5	mg/kg	55	260	99	270
% Moisture	1	%	7.2	27	21	8.6
Cyanide (free)	1	mg/kg	-	-	-	< 1

Client Sample ID			JB14D_0-0.1	JB20_0.2-0.3	JB21_0-0.1	JB22A_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13671	S20-Se13673	S20-Se13674	S20-Se13675
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	91	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	110
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	91	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	110
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB14D_0-0.1	JB20_0.2-0.3	JB21_0-0.1	JB22A_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13671	S20-Se13673	S20-Se13674	S20-Se13675
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88
Toluene-d8 (surr.)	1	%	-	-	-	85

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	64	-	360
TRH C29-C36	50	mg/kg	-	140	-	380
TRH C10-C36 (Total)	50	mg/kg	-	204	-	740
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	89	-	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	180	-	630
TRH >C34-C40	100	mg/kg	-	< 100	-	360
TRH >C10-C40 (total)*	100	mg/kg	-	180	-	990
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	112	121	104	65
p-Terphenyl-d14 (surr.)	1	%	109	135	100	79

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	7000	14000	-
Arsenic	2	mg/kg	3.0	3.1	< 2	5.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	270	46	78	72
Copper	5	mg/kg	87	62	51	61
Iron	20	mg/kg	-	25000	34000	-
Lead	5	mg/kg	23	47	< 5	5.7
Manganese	5	mg/kg	-	560	530	-
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	260	32	110	110
Zinc	5	mg/kg	110	510	66	79
% Moisture	1	%	23	3.6	13	19
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	45	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	8.5	-	-
Cyanide (free)	1	mg/kg	-	< 1	< 1	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	101	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	105	-	103
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	101	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	105	-	103
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	92
13C5-PFPeA (surr.)	1	%	-	-	-	104
13C5-PFHxA (surr.)	1	%	-	-	-	89
13C4-PFHpA (surr.)	1	%	-	-	-	96
13C8-PFOA (surr.)	1	%	-	-	-	89
13C5-PFNA (surr.)	1	%	-	-	-	91
13C6-PFDA (surr.)	1	%	-	-	-	100
13C2-PFUnDA (surr.)	1	%	-	-	-	91
13C2-PFDoDA (surr.)	1	%	-	-	-	90
13C2-PFTeDA (surr.)	1	%	-	-	-	99
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	124
D3-N-MeFOSA (surr.)	1	%	-	-	-	105
D5-N-EtFOSA (surr.)	1	%	-	-	-	135
D7-N-MeFOSE (surr.)	1	%	-	-	-	93
D9-N-EtFOSE (surr.)	1	%	-	-	-	97
D5-N-EtFOSAA (surr.)	1	%	-	-	-	102
D3-N-MeFOSAA (surr.)	1	%	-	-	-	95

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	147
18O2-PFHxS (surr.)	1	%	-	-	-	144
13C8-PFOS (surr.)	1	%	-	-	-	132
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	90
13C2-6:2 FTSA (surr.)	1	%	-	-	-	104
13C2-8:2 FTSA (surr.)	1	%	-	-	-	103
13C2-10:2 FTSA (surr.)	1	%	-	-	-	101
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	31	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	89	-	91
Toluene-d8 (surr.)	1	%	-	88	-	85
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
1-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
1-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
2-Nitroaniline	0.5	mg/kg	-	-	-	< 0.5
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2-Picoline	0.5	mg/kg	-	-	-	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	-	-	< 5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2.4-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
3-Methylcholanthrene	0.5	mg/kg	-	-	-	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	-	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	5	mg/kg	-	-	-	< 5
4.4'-DDD	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDE	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDT	0.5	mg/kg	-	-	-	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
a-BHC	0.5	mg/kg	-	-	-	< 0.5
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Acetophenone	0.5	mg/kg	-	-	-	< 0.5
Aldrin	0.5	mg/kg	-	-	-	< 0.5
Aniline	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
b-BHC	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Benzyl chloride	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	-	-	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
d-BHC	0.5	mg/kg	-	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	-	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	-	-	-	< 0.5
Dieldrin	0.5	mg/kg	-	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	-	-	-	< 0.5
Diphenylamine	0.5	mg/kg	-	-	-	< 0.5
Endosulfan I	0.5	mg/kg	-	-	-	< 0.5
Endosulfan II	0.5	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	-	-	-	< 0.5
Endrin	0.5	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	-	-	-	< 0.5
Endrin ketone	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	-	-	-	< 0.5
Heptachlor	0.5	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachloroethane	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Methoxychlor	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Phenol	0.5	mg/kg	-	-	-	< 0.5
Pronamide	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Trifluralin	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	67

Client Sample ID			JB22B_0-0.1	JB27_0-0.1	JB27_0.5-0.6	JB28_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13677	S20-Se13678	S20-Se13679	S20-Se13680
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Nitrobenzene-d5 (surr.)	1	%	-	-	-	64
2-Fluorobiphenyl (surr.)	1	%	-	-	-	65
2.4.6-Tribromophenol (surr.)	1	%	-	-	-	44

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	68	92	74	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	124	64	109	101
p-Terphenyl-d14 (surr.)	1	%	124	74	105	96
Heavy Metals						
Arsenic	2	mg/kg	7.1	12	< 2	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	19	190	16
Copper	5	mg/kg	10	67	57	23
Lead	5	mg/kg	310	11	< 5	7.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	140	580	15
Zinc	5	mg/kg	7.2	200	130	35
% Moisture	1	%	18	15	12	12
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	111	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	106	-	-

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB*	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	111	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	106	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	92	-	-
Toluene-d8 (surr.)	1	%	-	90	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
1-Chloronaphthalene	0.5	mg/kg	-	< 0.5	-	-
1-Naphthylamine	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Chloronaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2-Methylnaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Naphthylamine	0.5	mg/kg	-	< 0.5	-	-
2-Nitroaniline	0.5	mg/kg	-	< 0.5	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2-Picoline	0.5	mg/kg	-	< 0.5	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	< 5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2.4-Dinitrotoluene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.6-Dinitrotoluene	0.5	mg/kg	-	< 0.5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
3-Methylcholanthrene	0.5	mg/kg	-	< 0.5	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	< 0.5	-	-
4-Aminobiphenyl	0.5	mg/kg	-	< 0.5	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
4.4'-DDD	0.5	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.5	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.5	mg/kg	-	< 0.5	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
a-BHC	0.5	mg/kg	-	< 0.5	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Acetophenone	0.5	mg/kg	-	< 0.5	-	-
Aldrin	0.5	mg/kg	-	< 0.5	-	-
Aniline	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
b-BHC	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Benzyl chloride	0.5	mg/kg	-	< 0.5	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	< 0.5	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	< 0.5	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	< 0.5	-	-
Butyl benzyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
d-BHC	0.5	mg/kg	-	< 0.5	-	-
Di-n-butyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Di-n-octyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.j)acridine	0.5	mg/kg	-	< 0.5	-	-
Dibenzofuran	0.5	mg/kg	-	< 0.5	-	-
Dieldrin	0.5	mg/kg	-	< 0.5	-	-
Diethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dimethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dimethylaminoazobenzene	0.5	mg/kg	-	< 0.5	-	-
Diphenylamine	0.5	mg/kg	-	< 0.5	-	-
Endosulfan I	0.5	mg/kg	-	< 0.5	-	-
Endosulfan II	0.5	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			JB28_0.5-0.6	JB28_1.5-1.6	JB29_0.1-0.2	JB30_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13681	S20-Se13682	S20-Se13683	S20-Se13684
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Endrin	0.5	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.5	mg/kg	-	< 0.5	-	-
Endrin ketone	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
g-BHC (Lindane)	0.5	mg/kg	-	< 0.5	-	-
Heptachlor	0.5	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	-	< 0.5	-	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Methoxychlor	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosodibutylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosodipropylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosopiperidine	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Nitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachloronitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Pronamide	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Trifluralin	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	66	-	-
Nitrobenzene-d5 (surr.)	1	%	-	66	-	-
2-Fluorobiphenyl (surr.)	1	%	-	64	-	-
2.4.6-Tribromophenol (surr.)	1	%	-	85	-	-

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	72	90	69	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	118	64	108	98
p-Terphenyl-d14 (surr.)	1	%	119	78	104	95
Heavy Metals						
Aluminium	10	mg/kg	-	14000	-	14000
Arsenic	2	mg/kg	2.8	< 2	5.9	7.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	350	7.9	110	78
Copper	5	mg/kg	45	< 5	29	45
Iron	20	mg/kg	-	4300	-	37000
Lead	5	mg/kg	9.5	< 5	15	15
Manganese	5	mg/kg	-	530	-	980
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	290	< 5	110	99
Zinc	5	mg/kg	75	8.8	53	88
% Moisture	1	%	25	12	22	15
Cyanide (free)	1	mg/kg	-	< 1	-	< 1

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB*	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	81	-	-
13C5-PFPeA (surr.)	1	%	-	84	-	-
13C5-PFHxA (surr.)	1	%	-	76	-	-
13C4-PFHpA (surr.)	1	%	-	87	-	-
13C8-PFOA (surr.)	1	%	-	85	-	-
13C5-PFNA (surr.)	1	%	-	85	-	-
13C6-PFDA (surr.)	1	%	-	90	-	-
13C2-PFUnDA (surr.)	1	%	-	91	-	-
13C2-PFDoDA (surr.)	1	%	-	91	-	-
13C2-PFTeDA (surr.)	1	%	-	95	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	125	-	-
D3-N-MeFOSA (surr.)	1	%	-	119	-	-
D5-N-EtFOSA (surr.)	1	%	-	142	-	-
D7-N-MeFOSE (surr.)	1	%	-	98	-	-
D9-N-EtFOSE (surr.)	1	%	-	115	-	-
D5-N-EtFOSAA (surr.)	1	%	-	100	-	-
D3-N-MeFOSAA (surr.)	1	%	-	91	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	139	-	-
18O2-PFHxS (surr.)	1	%	-	145	-	-
13C8-PFOS (surr.)	1	%	-	132	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	-	111	-	-
13C2-6:2 FTSA (surr.)	1	%	-	67	-	-
13C2-8:2 FTSA (surr.)	1	%	-	92	-	-
13C2-10:2 FTSA (surr.)	1	%	-	99	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	90	-	96
Toluene-d8 (surr.)	1	%	-	85	-	87
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
1-Chloronaphthalene	0.5	mg/kg	-	< 0.5	-	-
1-Naphthylamine	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Chloronaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2-Methylnaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Naphthylamine	0.5	mg/kg	-	< 0.5	-	-
2-Nitroaniline	0.5	mg/kg	-	< 0.5	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2-Picoline	0.5	mg/kg	-	< 0.5	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	< 5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2.4-Dinitrotoluene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.6-Dinitrotoluene	0.5	mg/kg	-	< 0.5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
3-Methylcholanthrene	0.5	mg/kg	-	< 0.5	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	< 0.5	-	-
4-Aminobiphenyl	0.5	mg/kg	-	< 0.5	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
4.4'-DDD	0.5	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.5	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.5	mg/kg	-	< 0.5	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
a-BHC	0.5	mg/kg	-	< 0.5	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Acetophenone	0.5	mg/kg	-	< 0.5	-	-
Aldrin	0.5	mg/kg	-	< 0.5	-	-
Aniline	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
b-BHC	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Benzyl chloride	0.5	mg/kg	-	< 0.5	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	< 0.5	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	< 0.5	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	< 0.5	-	-
Butyl benzyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
d-BHC	0.5	mg/kg	-	< 0.5	-	-
Di-n-butyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Di-n-octyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.j)acridine	0.5	mg/kg	-	< 0.5	-	-
Dibenzofuran	0.5	mg/kg	-	< 0.5	-	-
Dieldrin	0.5	mg/kg	-	< 0.5	-	-
Diethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dimethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dimethylaminoazobenzene	0.5	mg/kg	-	< 0.5	-	-
Diphenylamine	0.5	mg/kg	-	< 0.5	-	-
Endosulfan I	0.5	mg/kg	-	< 0.5	-	-
Endosulfan II	0.5	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			JB30_3.0-3.1	JB31_0.05-0.1	JB31_0.9-0.1	JB35_2.1-2.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13685	S20-Se13686	S20-Se13687	S20-Se13688
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Endrin	0.5	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.5	mg/kg	-	< 0.5	-	-
Endrin ketone	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
g-BHC (Lindane)	0.5	mg/kg	-	< 0.5	-	-
Heptachlor	0.5	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	-	< 0.5	-	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Methoxychlor	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosodibutylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosodipropylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosopiperidine	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Nitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachloronitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Pronamide	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Trifluralin	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	62	-	-
Nitrobenzene-d5 (surr.)	1	%	-	70	-	-
2-Fluorobiphenyl (surr.)	1	%	-	64	-	-
2.4.6-Tribromophenol (surr.)	1	%	-	86	-	-

Client Sample ID			JB35_4.0-4.1	JB36_0.05-0.1	JB37_0.05-0.1	JB37_4.0-4.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13689	S20-Se13690	S20-Se13691	S20-Se13692
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			JB35_4.0-4.1	JB36_0.05-0.1	JB37_0.05-0.1	JB37_4.0-4.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13689	S20-Se13690	S20-Se13691	S20-Se13692
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	74	75	76	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	111	116	117	98
p-Terphenyl-d14 (surr.)	1	%	105	113	110	93
Heavy Metals						
Aluminium	10	mg/kg	-	25000	-	-
Arsenic	2	mg/kg	4.8	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	25	38	15
Copper	5	mg/kg	< 5	110	110	38
Iron	20	mg/kg	-	47000	-	-
Lead	5	mg/kg	< 5	< 5	< 5	12
Manganese	5	mg/kg	-	750	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	90	130	21
Zinc	5	mg/kg	< 5	73	99	71
% Moisture	1	%	4.7	7.9	9.0	22
Cyanide (free)	1	mg/kg	-	< 1	-	-

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	94	100	103
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	115	103	68	103
p-Terphenyl-d14 (surr.)	1	%	130	97	82	109

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Aluminium	10	mg/kg	-	-	19000	41000
Arsenic	2	mg/kg	< 2	< 2	4.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	51	65	180	330
Copper	5	mg/kg	10.0	28	43	85
Iron	20	mg/kg	-	-	41000	89000
Lead	5	mg/kg	8.8	15	14	< 5
Manganese	5	mg/kg	-	-	570	1200
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	47	130	280	540
Zinc	5	mg/kg	21	65	67	130
% Moisture	1	%	22	21	23	23
Cyanide (free)	1	mg/kg	-	-	< 1	< 1
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	105	-	94	75
Tetrachloro-m-xylene (surr.)	1	%	105	-	105	95
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	105	-	94	75
Tetrachloro-m-xylene (surr.)	1	%	105	-	105	95
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	79
13C5-PFPeA (surr.)	1	%	-	-	-	91
13C5-PFHxA (surr.)	1	%	-	-	-	81
13C4-PFHpA (surr.)	1	%	-	-	-	83
13C8-PFOA (surr.)	1	%	-	-	-	83
13C5-PFNA (surr.)	1	%	-	-	-	83
13C6-PFDA (surr.)	1	%	-	-	-	89
13C2-PFUnDA (surr.)	1	%	-	-	-	88
13C2-PFDoDA (surr.)	1	%	-	-	-	91
13C2-PFTeDA (surr.)	1	%	-	-	-	103
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	120
D3-N-MeFOSA (surr.)	1	%	-	-	-	107
D5-N-EtFOSA (surr.)	1	%	-	-	-	140
D7-N-MeFOSE (surr.)	1	%	-	-	-	96
D9-N-EtFOSE (surr.)	1	%	-	-	-	103
D5-N-EtFOSAA (surr.)	1	%	-	-	-	96
D3-N-MeFOSAA (surr.)	1	%	-	-	-	89
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	130
18O2-PFHxS (surr.)	1	%	-	-	-	141
13C8-PFOS (surr.)	1	%	-	-	-	131
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	109
13C2-6:2 FTSA (surr.)	1	%	-	-	-	82
13C2-8:2 FTSA (surr.)	1	%	-	-	-	90
13C2-10:2 FTSA (surr.)	1	%	-	-	-	101
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	93	-	100	103
Toluene-d8 (surr.)	1	%	86	-	86	86
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
1-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
1-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
2-Nitroaniline	0.5	mg/kg	-	-	< 0.5	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2-Picoline	0.5	mg/kg	-	-	< 0.5	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	-	< 5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
2.4-Dinitrotoluene	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.6-Dinitrotoluene	0.5	mg/kg	-	-	< 0.5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
3-Methylcholanthrene	0.5	mg/kg	-	-	< 0.5	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	-	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
4.4'-DDD	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDE	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDT	0.5	mg/kg	-	-	< 0.5	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
a-BHC	0.5	mg/kg	-	-	< 0.5	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Acetophenone	0.5	mg/kg	-	-	< 0.5	-
Aldrin	0.5	mg/kg	-	-	< 0.5	-
Aniline	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
b-BHC	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Benzyl chloride	0.5	mg/kg	-	-	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	< 0.5	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	< 0.5	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	-	< 0.5	-
Butyl benzyl phthalate	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			JB38_0.1-0.2	JB38_1.8-1.9	JB39_0.2-0.3	JB41_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13693	S20-Se13694	S20-Se13695	S20-Se13696
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Chrysene	0.5	mg/kg	-	-	< 0.5	-
d-BHC	0.5	mg/kg	-	-	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.j)acridine	0.5	mg/kg	-	-	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	-	< 0.5	-
Dieldrin	0.5	mg/kg	-	-	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethylaminoazobenzene	0.5	mg/kg	-	-	< 0.5	-
Diphenylamine	0.5	mg/kg	-	-	< 0.5	-
Endosulfan I	0.5	mg/kg	-	-	< 0.5	-
Endosulfan II	0.5	mg/kg	-	-	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	-	< 0.5	-
Endrin	0.5	mg/kg	-	-	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	-	< 0.5	-
Endrin ketone	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	-	< 0.5	-
Heptachlor	0.5	mg/kg	-	-	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorocyclopentadiene	0.5	mg/kg	-	-	< 0.5	-
Hexachloroethane	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Methoxychlor	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodibutylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Pronamide	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Trifluralin	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	81	-
Nitrobenzene-d5 (surr.)	1	%	-	-	80	-
2-Fluorobiphenyl (surr.)	1	%	-	-	68	-
2.4.6-Tribromophenol (surr.)	1	%	-	-	108	-

Client Sample ID			JB42_0.05-0.1	JB43_0-0.1	JB43A_0-0.1	JB44_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13697	S20-Se13698	S20-Se13699	S20-Se13700
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	102	-	78	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	110	106	118	107
p-Terphenyl-d14 (surr.)	1	%	130	103	107	104

Client Sample ID			JB42_0.05-0.1	JB43_0-0.1	JB43A_0-0.1	JB44_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13697	S20-Se13698	S20-Se13699	S20-Se13700
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	340	190	< 5	210
Copper	5	mg/kg	66	51	49	48
Lead	5	mg/kg	< 5	< 5	< 5	7.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	470	400	5.2	490
Zinc	5	mg/kg	120	110	21	110
% Moisture	1	%	8.6	8.5	5.9	14
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	96	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	96	-	-	-

Client Sample ID			JB42_0.05-0.1	JB43_0-0.1	JB43A_0-0.1	JB44_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13697	S20-Se13698	S20-Se13699	S20-Se13700
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			JB42_0.05-0.1	JB43_0-0.1	JB43A_0-0.1	JB44_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13697	S20-Se13698	S20-Se13699	S20-Se13700
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	102	-	-	-
Toluene-d8 (surr.)	1	%	86	-	-	-

Client Sample ID			JB45_0.05-0.1	JB49_0.05-0.1	JB50_0.1-0.2	JB50_3.3-3.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13701	S20-Se13702	S20-Se13703	S20-Se13704
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB45_0.05-0.1	JB49_0.05-0.1	JB50_0.1-0.2	JB50_3.3-3.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13701	S20-Se13702	S20-Se13703	S20-Se13704
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	112	103	95	101
p-Terphenyl-d14 (surr.)	1	%	108	100	93	120
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.1	< 2	9.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	260	13	26	150
Copper	5	mg/kg	50	19	75	22
Lead	5	mg/kg	< 5	6.3	< 5	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	450	8.6	110	32
Zinc	5	mg/kg	110	22	72	29
% Moisture	1	%	17	13	5.0	15
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2

Client Sample ID			JB45_0.05-0.1	JB49_0.05-0.1	JB50_0.1-0.2	JB50_3.3-3.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13701	S20-Se13702	S20-Se13703	S20-Se13704
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	103
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	103
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			JB45_0.05-0.1	JB49_0.05-0.1	JB50_0.1-0.2	JB50_3.3-3.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13701	S20-Se13702	S20-Se13703	S20-Se13704
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	90	-
Toluene-d8 (surr.)	1	%	-	-	85	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	26	< 20	< 20	-
TRH C15-C28	50	mg/kg	4400	< 50	< 50	-
TRH C29-C36	50	mg/kg	5800	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	10226	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	77	75	71	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	9300	< 100	< 100	-
TRH >C34-C40	100	mg/kg	1600	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	10900	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	1.4
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	0.6
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	1.3
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	3.8
2-Fluorobiphenyl (surr.)	1	%	64	-	97	114
p-Terphenyl-d14 (surr.)	1	%	70	-	100	141
Heavy Metals						
Aluminium	10	mg/kg	16000	-	-	-
Arsenic	2	mg/kg	4.7	-	6.4	6.0
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	15	-	54	100
Copper	5	mg/kg	45	-	28	40
Iron	20	mg/kg	49000	-	-	-
Lead	5	mg/kg	9.8	-	17	19
Manganese	5	mg/kg	660	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	41	-	48	95
Zinc	5	mg/kg	74	-	46	74
% Moisture	1	%	8.0	18	8.7	21
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	2400
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	8.2
Cyanide (free)	1	mg/kg	< 1	-	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	90	-	-	87
Tetrachloro-m-xylene (surr.)	1	%	98	-	-	118
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	90	-	-	87
Tetrachloro-m-xylene (surr.)	1	%	98	-	-	118
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	34	-	-	-
13C5-PFPeA (surr.)	1	%	37	-	-	-
13C5-PFHxA (surr.)	1	%	46	-	-	-
13C4-PFHpA (surr.)	1	%	53	-	-	-
13C8-PFOA (surr.)	1	%	59	-	-	-
13C5-PFNA (surr.)	1	%	58	-	-	-
13C6-PFDA (surr.)	1	%	71	-	-	-
13C2-PFUnDA (surr.)	1	%	69	-	-	-
13C2-PFDoDA (surr.)	1	%	66	-	-	-
13C2-PFTeDA (surr.)	1	%	90	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	70	-	-	-
D3-N-MeFOSA (surr.)	1	%	50	-	-	-
D5-N-EtFOSA (surr.)	1	%	56	-	-	-
D7-N-MeFOSE (surr.)	1	%	37	-	-	-
D9-N-EtFOSE (surr.)	1	%	38	-	-	-
D5-N-EtFOSAA (surr.)	1	%	69	-	-	-
D3-N-MeFOSAA (surr.)	1	%	54	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	84	-	-	-
18O2-PFHxS (surr.)	1	%	116	-	-	-
13C8-PFOS (surr.)	1	%	104	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	INT	-	-	-
13C2-6:2 FTSA (surr.)	1	%	164	-	-	-
13C2-8:2 FTSA (surr.)	1	%	171	-	-	-
13C2-10:2 FTSA (surr.)	1	%	83	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	45
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	77	75	-	-
Toluene-d8 (surr.)	1	%	85	85	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Nitroaniline	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Nitrophenol	1.0	mg/kg	< 1	< 1	-	-
2-Picoline	0.5	mg/kg	< 0.5	< 0.5	-	-
2.3.4.6-Tetrachlorophenol	5	mg/kg	< 5	< 5	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	-	-
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Nitrophenol	5	mg/kg	< 5	< 5	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	< 0.5	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	< 0.5	-	-
4.4'-DDT	0.5	mg/kg	< 0.5	< 0.5	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
a-BHC	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acetophenone	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin	0.5	mg/kg	< 0.5	< 0.5	-	-
Aniline	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
b-BHC	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	< 0.5	-	-
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	1.3	< 0.5	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
d-BHC	0.5	mg/kg	< 0.5	< 0.5	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	< 0.5	-	-
Dieldrin	0.5	mg/kg	< 0.5	< 0.5	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	< 0.5	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Diphenylamine	0.5	mg/kg	< 0.5	< 0.5	-	-
Endosulfan I	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			JB63_0.1-0.2	JB63_2.1-2.2	JB65_0.05-0.1	JB67_3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13705	S20-Se13706	S20-Se13707	S20-Se13708
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Endosulfan II	0.5	mg/kg	< 0.5	< 0.5	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	< 0.5	-	-
Endrin	0.5	mg/kg	< 0.5	< 0.5	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	< 0.5	-	-
Endrin ketone	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	< 0.5	-	-
Heptachlor	0.5	mg/kg	< 0.5	< 0.5	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	< 0.5	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	< 0.5	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Methoxychlor	0.5	mg/kg	< 0.5	< 0.5	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	< 0.5	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	< 0.5	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pentachlorophenol	1	mg/kg	< 1	< 1	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenol	0.5	mg/kg	< 0.5	< 0.5	-	-
Pronamide	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trifluralin	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenol-d6 (surr.)	1	%	68	61	-	-
Nitrobenzene-d5 (surr.)	1	%	66	62	-	-
2-Fluorobiphenyl (surr.)	1	%	64	57	-	-
2.4.6-Tribromophenol (surr.)	1	%	142	82	-	-

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	63
TRH C15-C28	50	mg/kg	61	-	-	250
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	61	-	-	313

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77	-	-	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	130
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	130
TRH >C16-C34	100	mg/kg	< 100	-	-	180
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	310
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	101	101	112	68
p-Terphenyl-d14 (surr.)	1	%	124	118	130	77
Heavy Metals						
Arsenic	2	mg/kg	7.4	3.8	4.9	8.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	83	210	130	58
Copper	5	mg/kg	45	30	23	64
Lead	5	mg/kg	25	17	26	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	89	120	51	98
Zinc	5	mg/kg	77	52	56	87
% Moisture	1	%	16	22	17	26

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	97	-	-	113
Tetrachloro-m-xylene (surr.)	1	%	102	-	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	97	-	-	113
Tetrachloro-m-xylene (surr.)	1	%	102	-	-	114
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	92
Toluene-d8 (surr.)	1	%	-	-	-	87

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
1-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
1-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Naphthylamine	0.5	mg/kg	-	-	-	< 0.5
2-Nitroaniline	0.5	mg/kg	-	-	-	< 0.5
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2-Picoline	0.5	mg/kg	-	-	-	< 0.5
2.3.4.6-Tetrachlorophenol	5	mg/kg	-	-	-	< 5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2.4-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
3-Methylcholanthrene	0.5	mg/kg	-	-	-	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	-	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	5	mg/kg	-	-	-	< 5
4.4'-DDD	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDE	0.5	mg/kg	-	-	-	< 0.5
4.4'-DDT	0.5	mg/kg	-	-	-	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
a-BHC	0.5	mg/kg	-	-	-	< 0.5
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Acetophenone	0.5	mg/kg	-	-	-	< 0.5
Aldrin	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Aniline	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
b-BHC	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Benzyl chloride	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	-	< 0.5
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	0.5	mg/kg	-	-	-	< 0.5
Butyl benzyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
d-BHC	0.5	mg/kg	-	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	-	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	-	-	-	< 0.5
Dieldrin	0.5	mg/kg	-	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	-	-	-	< 0.5
Diphenylamine	0.5	mg/kg	-	-	-	< 0.5
Endosulfan I	0.5	mg/kg	-	-	-	< 0.5
Endosulfan II	0.5	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	-	-	-	< 0.5
Endrin	0.5	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	-	-	-	< 0.5
Endrin ketone	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	-	-	-	< 0.5
Heptachlor	0.5	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachloroethane	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Methoxychlor	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			JB68_1.3-1.4	JB70_0-0.1	JB80_0-0.1	JB93_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13709	S20-Se13710	S20-Se13711	S20-Se13712
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Phenol	0.5	mg/kg	-	-	-	< 0.5
Pronamide	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Trifluralin	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	74
Nitrobenzene-d5 (surr.)	1	%	-	-	-	70
2-Fluorobiphenyl (surr.)	1	%	-	-	-	68
2.4.6-Tribromophenol (surr.)	1	%	-	-	-	84

Client Sample ID			JB93_2.0-2.1	JB101_0.15-0.2	JB103_0.4-0.5	JB105_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13713	S20-Se13714	S20-Se13715	S20-Se13716
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89	-	98	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			JB93_2.0-2.1	JB101_0.15-0.2	JB103_0.4-0.5	JB105_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13713	S20-Se13714	S20-Se13715	S20-Se13716
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	113	109	109
p-Terphenyl-d14 (surr.)	1	%	-	130	123	119
Heavy Metals						
Arsenic	2	mg/kg	9.7	< 2	< 2	3.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	280	190	130
Copper	5	mg/kg	39	48	59	50
Lead	5	mg/kg	24	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	70	470	420	270
Zinc	5	mg/kg	99	110	110	80
% Moisture	1	%	14	20	9.9	13
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			JB93_2.0-2.1	JB101_0.15-0.2	JB103_0.4-0.5	JB105_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13713	S20-Se13714	S20-Se13715	S20-Se13716
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	87
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	103
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	87
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	103
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB93_2.0-2.1	JB101_0.15-0.2	JB103_0.4-0.5	JB105_0.05-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13713	S20-Se13714	S20-Se13715	S20-Se13716
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	89	-	98	90
Toluene-d8 (surr.)	1	%	86	-	89	88

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	89	-	< 20
TRH C15-C28	50	mg/kg	55	330	-	< 50
TRH C29-C36	50	mg/kg	140	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	195	419	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	90	-	86

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	180	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	180	-	< 50
TRH >C16-C34	100	mg/kg	170	240	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	170	420	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	109	-	104
p-Terphenyl-d14 (surr.)	1	%	120	117	-	116
Heavy Metals						
Aluminium	10	mg/kg	9100	24000	-	-
Arsenic	2	mg/kg	3.2	4.5	-	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	56	100	-	14
Copper	5	mg/kg	68	52	-	35
Iron	20	mg/kg	41000	56000	-	-
Lead	5	mg/kg	58	12	-	8.9
Manganese	5	mg/kg	620	820	-	-
Mercury	0.1	mg/kg	0.2	< 0.1	-	< 0.1
Nickel	5	mg/kg	36	170	-	26
Zinc	5	mg/kg	780	77	-	41
% Moisture	1	%	3.4	26	22	12
Cyanide (free)	1	mg/kg	< 1	< 1	-	-

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	112	86	-	96
Tetrachloro-m-xylene (surr.)	1	%	97	99	-	97
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	112	86	-	96
Tetrachloro-m-xylene (surr.)	1	%	97	99	-	97
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	70	-
13C5-PFPeA (surr.)	1	%	-	-	79	-
13C5-PFHxA (surr.)	1	%	-	-	82	-
13C4-PFHpA (surr.)	1	%	-	-	77	-
13C8-PFOA (surr.)	1	%	-	-	78	-
13C5-PFNA (surr.)	1	%	-	-	76	-
13C6-PFDA (surr.)	1	%	-	-	87	-
13C2-PFUnDA (surr.)	1	%	-	-	85	-
13C2-PFDoDA (surr.)	1	%	-	-	83	-
13C2-PFTeDA (surr.)	1	%	-	-	100	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	123	-
D3-N-MeFOSA (surr.)	1	%	-	-	113	-
D5-N-EtFOSA (surr.)	1	%	-	-	134	-
D7-N-MeFOSE (surr.)	1	%	-	-	97	-
D9-N-EtFOSE (surr.)	1	%	-	-	110	-
D5-N-EtFOSAA (surr.)	1	%	-	-	88	-
D3-N-MeFOSAA (surr.)	1	%	-	-	71	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	125	-
18O2-PFHxS (surr.)	1	%	-	-	141	-
13C8-PFOS (surr.)	1	%	-	-	115	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	-	-	97	-
13C2-6:2 FTSA (surr.)	1	%	-	-	74	-
13C2-8:2 FTSA (surr.)	1	%	-	-	90	-
13C2-10:2 FTSA (surr.)	1	%	-	-	77	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			QA20200904-1	QA20200905-1	QA20200905-2	QA20200905-CK1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13717	S20-Se13718	S20-Se13719	S20-Se13720
Date Sampled			Sep 04, 2020	Sep 05, 2020	Sep 05, 2020	Sep 05, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	90	-	-
Toluene-d8 (surr.)	1	%	-	85	-	-

Client Sample ID			QA20200905-CK2	JB100_0.0-0.1	JB100_0.4-0.5	JB100_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13721	S20-Se13726	S20-Se13727	S20-Se13728
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	95	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-

Client Sample ID			QA20200905-CK2	JB100_0.0-0.1	JB100_0.4-0.5	JB100_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13721	S20-Se13726	S20-Se13727	S20-Se13728
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	112	111	110
p-Terphenyl-d14 (surr.)	1	%	105	128	116	119
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.1	4.5	5.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	35	38	40	94
Copper	5	mg/kg	50	62	75	39
Lead	5	mg/kg	28	6.8	76	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	47	36	31	100
Zinc	5	mg/kg	150	64	78	76
% Moisture	1	%	6.9	12	17	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			QA20200905-CK2	JB100_0.0-0.1	JB100_0.4-0.5	JB100_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13721	S20-Se13726	S20-Se13727	S20-Se13728
Date Sampled			Sep 05, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	94	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	94	-	-	-

Client Sample ID			JB98_0.0-0.1	JB98_1.9-2.0	JB52_0.5-0.6	JB60_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13729	S20-Se13730	S20-Se13736	S20-Se13894
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	56	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	56	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	89	97

Client Sample ID			JB98_0.0-0.1	JB98_1.9-2.0	JB52_0.5-0.6	JB60_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13729	S20-Se13730	S20-Se13736	S20-Se13894
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	120	114	112	105
p-Terphenyl-d14 (surr.)	1	%	137	122	122	121
Heavy Metals						
Arsenic	2	mg/kg	5.7	5.9	14	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	270	140	32	21
Copper	5	mg/kg	73	46	54	32
Lead	5	mg/kg	24	22	57	8.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	190	180	37	18
Zinc	5	mg/kg	86	150	130	53
% Moisture	1	%	14	29	11	12
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	820	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID			JB98_0.0-0.1	JB98_1.9-2.0	JB52_0.5-0.6	JB60_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13729	S20-Se13730	S20-Se13736	S20-Se13894
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	108	-	-	82
Tetrachloro-m-xylene (surr.)	1	%	110	-	-	101
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	108	-	-	82
Tetrachloro-m-xylene (surr.)	1	%	110	-	-	101
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	40	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			JB98_0.0-0.1	JB98_1.9-2.0	JB52_0.5-0.6	JB60_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13729	S20-Se13730	S20-Se13736	S20-Se13894
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	89	97
Toluene-d8 (surr.)	1	%	-	-	86	88

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B7 (filtered metals/PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 09, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Eurofins Suite B7 (filtered metals)			
Polycyclic Aromatic Hydrocarbons	Melbourne	Sep 14, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Heavy Metals	Sydney	Sep 09, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Sep 09, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (free)	Sydney	Sep 09, 2020	14 Days
- Method: E054 Free Cyanide			
Volatile Organics	Sydney	Sep 09, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Semivolatile Organics	Melbourne	Sep 14, 2020	14 Days
- Method: LTM-ORG-2190 SVOC in Water & Soil by GC-MS			
Metals M8	Sydney	Sep 09, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Sep 14, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Sep 15, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Organochlorine Pesticides	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 09, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 10, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 10, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 10, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 10, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project ID: 58238

Order No.:
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Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271		X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																		X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																														
Newcastle Laboratory																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	JB01_0.4-0.5	Sep 05, 2020		Soil	S20-Se13658			X																X			X				
2	JB02_0.5-0.6	Sep 05, 2020		Soil	S20-Se13659			X													X				X			X				
3	JB03_0.3-0.4	Sep 05, 2020		Soil	S20-Se13660			X													X				X			X				
4	JB03_2.4-2.5	Sep 05, 2020		Soil	S20-Se13661			X													X				X			X				
5	JB06_2.0-2.1	Sep 05, 2020		Soil	S20-Se13662			X																	X			X			X	
6	JB07_0-0.1	Sep 05, 2020		Soil	S20-Se13663			X									X	X							X							
7	JB08_1.5-1.6	Sep 05, 2020		Soil	S20-Se13664												X	X							X							
8	JB13_0.5-0.6	Sep 05, 2020		Soil	S20-Se13665			X																	X			X				
9	JB14_0.5-0.6	Sep 05, 2020		Soil	S20-Se13666			X													X				X			X			X	

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Project Name: PLE
Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
10	JB14A_0.5-0.6	Sep 05, 2020		Soil	S20-Se13667			X														X					X			X					
11	JB14A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13668			X																												
12	JB14B_0-0.1	Sep 05, 2020		Soil	S20-Se13669			X																			X			X						
13	JB14B_1.5-1.6	Sep 05, 2020		Soil	S20-Se13670			X									X	X	X								X	X								
14	JB14D_0-0.1	Sep 05, 2020		Soil	S20-Se13671			X										X	X								X									
15	JB20_0-0.1	Sep 05, 2020		Soil	S20-Se13672					X																										
16	JB20_0.2-0.3	Sep 05, 2020		Soil	S20-Se13673																	X					X			X						
17	JB21_0-0.1	Sep 05, 2020		Soil	S20-Se13674			X											X								X									
18	JB22A_0-0.1	Sep 05, 2020		Soil	S20-Se13675	X		X			X		X		X							X			X		X			X						
19	JB22A_FRAG	Sep 05, 2020		Building Materials	S20-Se13676				X																											
20	JB22B_0-0.1	Sep 05, 2020		Soil	S20-Se13677			X										X	X								X									
21	JB27_0-0.1	Sep 04, 2020		Soil	S20-Se13678	X		X			X		X		X		X					X			X		X	X		X						

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X			
Perth Laboratory - NATA Site # 23736																																				
22	JB27_0.5-0.6	Sep 04, 2020		Soil	S20-Se13679	X					X		X		X			X	X							X									
23	JB28_0.2-0.3	Sep 05, 2020		Soil	S20-Se13680																	X			X		X		X	X			X			
24	JB28_0.5-0.6	Sep 05, 2020		Soil	S20-Se13681																						X				X					
25	JB28_1.5-1.6	Sep 05, 2020		Soil	S20-Se13682																	X			X		X		X		X					
26	JB29_0.1-0.2	Sep 05, 2020		Soil	S20-Se13683																						X				X					
27	JB30_0.05-0.1	Sep 05, 2020		Soil	S20-Se13684													X	X								X									
28	JB30_3.0-3.1	Sep 04, 2020		Soil	S20-Se13685			X																			X				X					
29	JB31_0.05-0.1	Sep 04, 2020		Soil	S20-Se13686	X		X			X		X		X							X			X		X		X	X			X			
30	JB31_0.9-0.1	Sep 04, 2020		Soil	S20-Se13687																						X				X					
31	JB35_2.1-2.2	Sep 04, 2020		Soil	S20-Se13688	X					X		X		X										X		X				X					
32	JB35_4.0-4.1	Sep 04, 2020		Soil	S20-Se13689			X																			X				X					
33	JB36_0.05-0.1	Sep 04, 2020		Soil	S20-Se13690	X					X		X		X												X				X					
34	JB37_0.05-0.1	Sep 04, 2020		Soil	S20-Se13691																						X				X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																		
35	JB37_4.0-4.1	Sep 04, 2020		Soil	S20-Se13692																					X			X					
36	JB38_0.1-0.2	Sep 04, 2020		Soil	S20-Se13693																	X			X		X			X					
37	JB38_1.8-1.9	Sep 04, 2020		Soil	S20-Se13694																						X			X					
38	JB39_0.2-0.3	Sep 04, 2020		Soil	S20-Se13695	X					X		X		X							X			X		X		X	X					
39	JB41_0.1-0.2	Sep 05, 2020		Soil	S20-Se13696	X					X		X		X							X			X		X			X			X		
40	JB42_0.05-0.1	Sep 05, 2020		Soil	S20-Se13697																	X			X		X			X					
41	JB43_0-0.1	Sep 05, 2020		Soil	S20-Se13698													X	X								X								
42	JB43A_0-0.1	Sep 05, 2020		Soil	S20-Se13699			X																			X			X					
43	JB44_0-0.1	Sep 05, 2020		Soil	S20-Se13700			X										X	X								X								
44	JB45_0.05-0.1	Sep 05, 2020		Soil	S20-Se13701													X	X								X								
45	JB49_0.05-0.1	Sep 05, 2020		Soil	S20-Se13702			X										X	X								X								
46	JB50_0.1-0.2	Sep 04, 2020		Soil	S20-Se13703																				X		X			X					
47	JB50_3.3-3.4	Sep 04, 2020		Soil	S20-Se13704			X										X	X			X					X								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X		X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																		
48	JB63_0.1-0.2	Sep 04, 2020		Soil	S20-Se13705	X					X		X		X							X			X		X		X	X			X		
49	JB63_2.1-2.2	Sep 04, 2020		Soil	S20-Se13706																				X		X		X			X			
50	JB65_0.05-0.1	Sep 04, 2020		Soil	S20-Se13707			X																			X			X					
51	JB67_3.0-3.1	Sep 05, 2020		Soil	S20-Se13708			X									X	X	X			X					X	X							
52	JB68_1.3-1.4	Sep 04, 2020		Soil	S20-Se13709																	X					X			X					
53	JB70_0-0.1	Sep 05, 2020		Soil	S20-Se13710			X										X	X								X								
54	JB80_0-0.1	Sep 05, 2020		Soil	S20-Se13711			X										X	X								X								
55	JB93_0.4-0.5	Sep 05, 2020		Soil	S20-Se13712																	X			X		X		X	X					
56	JB93_2.0-2.1	Sep 05, 2020		Soil	S20-Se13713														X						X		X					X			
57	JB101_0.15-0.2	Sep 05, 2020		Soil	S20-Se13714													X	X								X								
58	JB103_0.4-0.5	Sep 05, 2020		Soil	S20-Se13715																				X		X			X					
59	JB105_0.05-	Sep 05, 2020		Soil	S20-Se13716																	X			X		X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
	0.1																																			
60	QA20200904-1	Sep 04, 2020		Soil	S20-Se13717	X					X		X		X							X					X				X				
61	QA20200905-1	Sep 05, 2020		Soil	S20-Se13718	X		X			X		X		X							X			X		X				X				
62	QA20200905-2	Sep 05, 2020		Soil	S20-Se13719																					X							X		
63	QA20200905-CK1	Sep 05, 2020		Soil	S20-Se13720			X														X					X				X				
64	QA20200905-CK2	Sep 05, 2020		Soil	S20-Se13721			X														X					X				X				
65	RIN02	Sep 05, 2020		Water	S20-Se13722		X							X		X					X			X				X		X		X			
66	RIN03	Sep 05, 2020		Water	S20-Se13723																X		X	X											X
67	TS	Sep 03, 2020		Water	S20-Se13724																													X		

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Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
68	TB	Sep 03, 2020		Water	S20-Se13725															X															
69	JB100_0.0-0.1	Sep 04, 2020		Soil	S20-Se13726			X										X	X							X									
70	JB100_0.4-0.5	Sep 04, 2020		Soil	S20-Se13727			X										X	X							X									
71	JB100_1.2-1.3	Sep 04, 2020		Soil	S20-Se13728			X										X	X							X									
72	JB98_0.0-0.1	Sep 04, 2020		Soil	S20-Se13729			X									X	X	X			X				X	X								
73	JB98_1.9-2.0	Sep 04, 2020		Soil	S20-Se13730			X										X	X							X									
74	JB96_0.0-0.1	Sep 04, 2020		Soil	S20-Se13731			X																											
75	JB95_0.9-1.0	Sep 04, 2020		Soil	S20-Se13732			X																											
76	JB94_0.9-1.0	Sep 04, 2020		Soil	S20-Se13733			X																											
77	JB94_2.4-2.5	Sep 04, 2020		Soil	S20-Se13734			X																											
78	JB89_0.4-0.5	Sep 04, 2020		Soil	S20-Se13735			X																											
79	JB52_0.5-0.6	Sep 04, 2020		Soil	S20-Se13736			X																X		X			X						
80	JB89A_0.2-0.3	Sep 04, 2020		Soil	S20-Se13737			X																											

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
81	JB98-A	Sep 04, 2020		Building Materials	S20-Se13738				X																											
82	JB96-A	Sep 04, 2020		Building Materials	S20-Se13739				X																											
83	JB94-A	Sep 04, 2020		Building Materials	S20-Se13740				X																											
84	JB01_0-0.1	Sep 05, 2020		Soil	S20-Se13741							X																								
85	JB01_1.5-1.6	Sep 05, 2020		Soil	S20-Se13742							X																								
86	JB02_0-0.1	Sep 05, 2020		Soil	S20-Se13743							X																								
87	JB02_1.5-1.6	Sep 05, 2020		Soil	S20-Se13744							X																								
88	JB02_2.6-2.7	Sep 05, 2020		Soil	S20-Se13745							X																								
89	JB03_0-0.1	Sep 05, 2020		Soil	S20-Se13746							X																								
90	JB03_1.0-1.1	Sep 05, 2020		Soil	S20-Se13747							X																								
91	JB03_1.3-1.4	Sep 05, 2020		Soil	S20-Se13748							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
92	JB03_3.0-3.1	Sep 05, 2020		Soil	S20-Se13749							X																								
93	JB06_0-0.1	Sep 05, 2020		Soil	S20-Se13750							X																								
94	JB06_0.5-0.6	Sep 05, 2020		Soil	S20-Se13751							X																								
95	JB06_1.1-1.2	Sep 05, 2020		Soil	S20-Se13752							X																								
96	JB06_2.8-2.9	Sep 05, 2020		Soil	S20-Se13753							X																								
97	JB07_0.5-0.6	Sep 05, 2020		Soil	S20-Se13754							X																								
98	JB07_1.5-1.6	Sep 05, 2020		Soil	S20-Se13755							X																								
99	JB07_2.7-2.8	Sep 05, 2020		Soil	S20-Se13756							X																								
100	JB08_0-0.1	Sep 05, 2020		Soil	S20-Se13757							X																								
101	JB08_0.5-0.6	Sep 05, 2020		Soil	S20-Se13758							X																								
102	JB08_2.3-2.3	Sep 05, 2020		Soil	S20-Se13759							X																								
103	JB09_0-0.1	Sep 05, 2020		Soil	S20-Se13760							X																								
104	JB09_0.5-0.6	Sep 05, 2020		Soil	S20-Se13761							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
105	JB09_1.1-1.2	Sep 05, 2020		Soil	S20-Se13762							X																							
106	JB09_1.6-1.7	Sep 05, 2020		Soil	S20-Se13763							X																							
107	JB13_0-0.1	Sep 05, 2020		Soil	S20-Se13764							X																							
108	JB14_0-0.1	Sep 05, 2020		Soil	S20-Se13765							X																							
109	JB14_1.0-1.1	Sep 05, 2020		Soil	S20-Se13766							X																							
110	JB14_1.5-1.6	Sep 05, 2020		Soil	S20-Se13767							X																							
111	JB14_1.6-1.7	Sep 05, 2020		Soil	S20-Se13768							X																							
112	JB14A_0-0.1	Sep 05, 2020		Soil	S20-Se13769							X																							
113	JB14A_1.5-1.6	Sep 05, 2020		Soil	S20-Se13770							X																							
114	JB14A_1.8-1.9	Sep 05, 2020		Soil	S20-Se13771							X																							
115	JB14B_0.5-0.6	Sep 05, 2020		Soil	S20-Se13772							X																							
116	JB14B_1.7-1.8	Sep 05, 2020		Soil	S20-Se13773							X																							
117	JB14C_0-0.1	Sep 05, 2020		Soil	S20-Se13774							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
118	JB14C_0.5-0.6	Sep 05, 2020		Soil	S20-Se13775							X																							
119	JB14C_1.0-1.1	Sep 05, 2020		Soil	S20-Se13776							X																							
120	JB14C_1.5-1.6	Sep 05, 2020		Soil	S20-Se13777							X																							
121	JB14D_0.5-0.6	Sep 05, 2020		Soil	S20-Se13778							X																							
122	JB14D_1.0-1.1	Sep 05, 2020		Soil	S20-Se13779							X																							
123	JB14D_1.3-1.4	Sep 05, 2020		Soil	S20-Se13780							X																							
124	JB21_0.2-0.3	Sep 05, 2020		Soil	S20-Se13781							X																							
125	JB22B_0.3-0.4	Sep 05, 2020		Soil	S20-Se13782							X																							
126	JB27_1.0-1.1	Sep 04, 2020		Soil	S20-Se13783							X																							
127	JB28_0.7-0.8	Sep 05, 2020		Soil	S20-Se13784							X																							
128	JB28_2.1-2.2	Sep 05, 2020		Soil	S20-Se13785							X																							
129	JB29_0.5-0.6	Sep 05, 2020		Soil	S20-Se13786							X																							
130	JB29_1.6-1.7	Sep 05, 2020		Soil	S20-Se13787							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
131	JB30_0.5-0.6	Sep 05, 2020		Soil	S20-Se13788							X																							
132	JB30_1.5-1.6	Sep 04, 2020		Soil	S20-Se13789							X																							
133	JB30_2.1-2.2	Sep 04, 2020		Soil	S20-Se13790							X																							
134	JB30_3.7-3.8	Sep 04, 2020		Soil	S20-Se13791							X																							
135	JB31_0.4-0.5	Sep 04, 2020		Soil	S20-Se13792							X																							
136	JB31_2.0-2.1	Sep 04, 2020		Soil	S20-Se13793							X																							
137	JB31_2.4-2.5	Sep 04, 2020		Soil	S20-Se13794							X																							
138	JB31_2.8-2.9	Sep 04, 2020		Soil	S20-Se13795							X																							
139	JB35_0-0.1	Sep 04, 2020		Soil	S20-Se13796							X																							
140	JB35_0.5-0.6	Sep 04, 2020		Soil	S20-Se13797							X																							
141	JB35_1.0-1.1	Sep 04, 2020		Soil	S20-Se13798							X																							
142	JB35_2.4-2.5	Sep 04, 2020		Soil	S20-Se13799							X																							
143	JB35_3.1-3.2	Sep 04, 2020		Soil	S20-Se13800							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
144	JB35_5.0-5.1	Sep 04, 2020		Soil	S20-Se13801							X																								
145	JB36_1.0-1.1	Sep 04, 2020		Soil	S20-Se13802							X																								
146	JB36_2.0-2.1	Sep 04, 2020		Soil	S20-Se13803							X																								
147	JB36_3.2-3.3	Sep 04, 2020		Soil	S20-Se13804							X																								
148	JB37_0.6-0.7	Sep 04, 2020		Soil	S20-Se13805							X																								
149	JB37_1.5-1.6	Sep 04, 2020		Soil	S20-Se13806							X																								
150	JB37_2.6-2.7	Sep 04, 2020		Soil	S20-Se13807							X																								
151	JB37_4.1-4.2	Sep 04, 2020		Soil	S20-Se13808							X																								
152	JB38_1.0-1.1	Sep 04, 2020		Soil	S20-Se13809							X																								
153	JB38_2.0-2.1	Sep 04, 2020		Soil	S20-Se13810							X																								
154	JB38_3.0-3.1	Sep 04, 2020		Soil	S20-Se13811							X																								
155	JB39_0.9-1.0	Sep 04, 2020		Soil	S20-Se13812							X																								
156	JB41_1.0-1.1	Sep 05, 2020		Soil	S20-Se13813							X																								

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Project ID: 58238

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Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
157	JB42_1.0-1.1	Sep 05, 2020		Soil	S20-Se13814							X																							
158	JB43_0.5-0.6	Sep 05, 2020		Soil	S20-Se13815							X																							
159	JB43A_0.4-0.5	Sep 05, 2020		Soil	S20-Se13816							X																							
160	JB43A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13817							X																							
161	JB44_0.3-0.4	Sep 05, 2020		Soil	S20-Se13818							X																							
162	JB44_1.0-1.1	Sep 05, 2020		Soil	S20-Se13819							X																							
163	JB45_0.5-0.6	Sep 05, 2020		Soil	S20-Se13820							X																							
164	JB49_0.5-0.6	Sep 05, 2020		Soil	S20-Se13821							X																							
165	JB49_2.0-2.1	Sep 05, 2020		Soil	S20-Se13822							X																							
166	JB49_2.5-2.6	Sep 05, 2020		Soil	S20-Se13823							X																							
167	JB50_0.3-0.4	Sep 04, 2020		Soil	S20-Se13824							X																							
168	JB50_0.5-0.6	Sep 04, 2020		Soil	S20-Se13825							X																							
169	JB50_2.4-2.5	Sep 04, 2020		Soil	S20-Se13826							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
170	JB50_3.0-3.1	Sep 04, 2020		Soil	S20-Se13827							X																							
171	JB50_4.8-4.9	Sep 04, 2020		Soil	S20-Se13828							X																							
172	JB63_0.5-0.6	Sep 04, 2020		Soil	S20-Se13829							X																							
173	JB63_1.5-1.6	Sep 04, 2020		Soil	S20-Se13830							X																							
174	JB63_2.6-2.7	Sep 04, 2020		Soil	S20-Se13831							X																							
175	JB65_0.2-0.3	Sep 04, 2020		Soil	S20-Se13832							X																							
176	JB65_1.0-1.1	Sep 04, 2020		Soil	S20-Se13833							X																							
177	JB65_1.2-1.3	Sep 04, 2020		Soil	S20-Se13834							X																							
178	JB65_2.1-2.2	Sep 04, 2020		Soil	S20-Se13835							X																							
179	JB67_0-0.1	Sep 05, 2020		Soil	S20-Se13836							X																							
180	JB67_0.5-0.6	Sep 05, 2020		Soil	S20-Se13837							X																							
181	JB67_1.0-1.1	Sep 05, 2020		Soil	S20-Se13838							X																							
182	JB67_1.5-1.6	Sep 05, 2020		Soil	S20-Se13839							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
183	JB67_2.0-2.1	Sep 05, 2020		Soil	S20-Se13840							X																							
184	JB68_0.05-0.1	Sep 04, 2020		Soil	S20-Se13841							X																							
185	JB68_0.5-0.6	Sep 04, 2020		Soil	S20-Se13842							X																							
186	JB68_2.3-2.4	Sep 04, 2020		Soil	S20-Se13843							X																							
187	JB69_0.05-0.1	Sep 04, 2020		Soil	S20-Se13844							X																							
188	JB69_0.4-0.5	Sep 04, 2020		Soil	S20-Se13845							X																							
189	JB69_0.7-0.8	Sep 04, 2020		Soil	S20-Se13846							X																							
190	JB69_3.3-3.4	Sep 04, 2020		Soil	S20-Se13847							X																							
191	JB69_3.8-3.9	Sep 04, 2020		Soil	S20-Se13848							X																							
192	JB70_0.5-0.6	Sep 05, 2020		Soil	S20-Se13849							X																							
193	JB70_1.0-1.1	Sep 05, 2020		Soil	S20-Se13850							X																							
194	JB70_2.1-2.2	Sep 05, 2020		Soil	S20-Se13851							X																							
195	JB80_0.5-0.6	Sep 05, 2020		Soil	S20-Se13852							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
196	JB80_1.0-1.1	Sep 05, 2020		Soil	S20-Se13853							X																								
197	JB93_1.0-1.1	Sep 05, 2020		Soil	S20-Se13854							X																								
198	JB93_2.5-2.6	Sep 05, 2020		Soil	S20-Se13855							X																								
199	JB101_1.0-1.1	Sep 05, 2020		Soil	S20-Se13856							X																								
200	JB101_1.5-1.6	Sep 05, 2020		Soil	S20-Se13857							X																								
201	JB101_2.3-2.4	Sep 05, 2020		Soil	S20-Se13858							X																								
202	JB103_0-0.1	Sep 05, 2020		Soil	S20-Se13859							X																								
203	JB104_0.2-0.3	Sep 05, 2020		Soil	S20-Se13860							X																								
204	JB104_1.0-1.1	Sep 05, 2020		Soil	S20-Se13861							X																								
205	JB105_0.5-0.6	Sep 05, 2020		Soil	S20-Se13862							X																								
206	QA20200904-2	Sep 04, 2020		Soil	S20-Se13863							X																								
207	JB99_0.1-0.2	Sep 04, 2020		Soil	S20-Se13864							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
208	JB99_0.4-0.5	Sep 04, 2020		Soil	S20-Se13865							X																							
209	JB98_0.4-0.5	Sep 04, 2020		Soil	S20-Se13866							X																							
210	JB98_0.9-1.0	Sep 04, 2020		Soil	S20-Se13867							X																							
211	JB97_0.1-0.2	Sep 04, 2020		Soil	S20-Se13868							X																							
212	JB97_0.4-0.5	Sep 04, 2020		Soil	S20-Se13869							X																							
213	JB97_0.9-1.0	Sep 04, 2020		Soil	S20-Se13870							X																							
214	JB97_1.9-2.0	Sep 04, 2020		Soil	S20-Se13871							X																							
215	JB96_0.4-0.5	Sep 04, 2020		Soil	S20-Se13872							X																							
216	JB96_0.9-1.0	Sep 04, 2020		Soil	S20-Se13873							X																							
217	JB96_1.9-2.0	Sep 04, 2020		Soil	S20-Se13874							X																							
218	JB95_0.1-0.2	Sep 04, 2020		Soil	S20-Se13875							X																							
219	JB95_1.6-1.7	Sep 04, 2020		Soil	S20-Se13876							X																							
220	JB95_1.9-2.0	Sep 04, 2020		Soil	S20-Se13877							X																							

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Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
221	JB94_0.1-0.2	Sep 04, 2020		Soil	S20-Se13878							X																								
222	JB94_1.9-2.0	Sep 04, 2020		Soil	S20-Se13879							X																								
223	JB89_0.1-0.2	Sep 04, 2020		Soil	S20-Se13880							X																								
224	JB89_1.8-1.9	Sep 04, 2020		Soil	S20-Se13881							X																								
225	JB89_2.3-2.4	Sep 04, 2020		Soil	S20-Se13882							X																								
226	JB52_0.1-0.2	Sep 04, 2020		Soil	S20-Se13883							X																								
227	JB52_0.9-1.0	Sep 04, 2020		Soil	S20-Se13884							X																								
228	JB52A_0.0-0.1	Sep 04, 2020		Soil	S20-Se13885							X																								
229	JB90_0.2-0.3	Sep 04, 2020		Soil	S20-Se13886							X																								
230	JB90_0.5-0.6	Sep 04, 2020		Soil	S20-Se13887							X																								
231	JB34_0.2-0.3	Sep 04, 2020		Soil	S20-Se13888							X																								
232	JB34_0.6-0.7	Sep 04, 2020		Soil	S20-Se13889							X																								
233	JB34_1.2-1.3	Sep 04, 2020		Soil	S20-Se13890							X																								

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Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
234	JB91_0-0.1	Sep 04, 2020		Soil	S20-Se13891							X																								
235	JB91_0.5-0.6	Sep 04, 2020		Soil	S20-Se13892							X																								
236	JB91_1.8-1.9	Sep 04, 2020		Soil	S20-Se13893							X																								
237	JB60_0.3-0.4	Sep 04, 2020		Soil	S20-Se13894			X														X			X		X			X					
238	JB60_0.8-0.9	Sep 04, 2020		Soil	S20-Se13895							X																								
239	JB60_1.1-1.2	Sep 04, 2020		Soil	S20-Se13896							X																								
Test Counts						11	1	44	4	1	11	155	11	1	11	1	4	21	23	1	29	29	1	22	22	68	68	4	8	43	1	2	8	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/kg	< 10			10	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cyanide (free)	mg/kg	< 1			1	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	77			70-130	Pass	
TRH C10-C14	%	83			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	101			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	94			70-130	Pass	
Acenaphthylene	%	86			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	102			70-130	Pass	
Benzo(a)pyrene	%	85			70-130	Pass	
Benzo(b&j)fluoranthene	%	95			70-130	Pass	
Benzo(g.h.i)perylene	%	102			70-130	Pass	
Benzo(k)fluoranthene	%	88			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	118			70-130	Pass	
Fluoranthene	%	85			70-130	Pass	
Fluorene	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	108			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	102			70-130	Pass	
Pyrene	%	85			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	104			80-120	Pass	
Arsenic	%	91			80-120	Pass	
Cadmium	%	92			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	95			80-120	Pass	
Iron	%	100			80-120	Pass	
Lead	%	94			80-120	Pass	
Manganese	%	96			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	97			80-120	Pass	
LCS - % Recovery							
Cyanide (free)	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	81			70-130	Pass	
4.4'-DDD	%	95			70-130	Pass	
4.4'-DDE	%	93			70-130	Pass	
4.4'-DDT	%	114			70-130	Pass	
a-BHC	%	91			70-130	Pass	
Aldrin	%	92			70-130	Pass	
b-BHC	%	95			70-130	Pass	
d-BHC	%	98			70-130	Pass	
Dieldrin	%	105			70-130	Pass	
Endosulfan I	%	95			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	%	102			70-130	Pass	
Endosulfan sulphate	%	92			70-130	Pass	
Endrin	%	113			70-130	Pass	
Endrin aldehyde	%	109			70-130	Pass	
Endrin ketone	%	84			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	115			70-130	Pass	
Heptachlor epoxide	%	90			70-130	Pass	
Hexachlorobenzene	%	81			70-130	Pass	
Methoxychlor	%	125			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	125			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	107			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	121			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	133			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	84			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	88			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	114			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	106			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	89			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	95			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	99			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	96			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	98			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	103			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	105			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	78			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	111			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	117			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	104			50-150	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	%	89			70-130	Pass	
1.2-Dichlorobenzene	%	92			70-130	Pass	
1.2-Dichloroethane	%	92			70-130	Pass	
Trichloroethene	%	91			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	%	124			30-130	Pass	
2-Chlorophenol	%	98			30-130	Pass	
2-Methylphenol (o-Cresol)	%	99			30-130	Pass	
2.4-Dichlorophenol	%	108			30-130	Pass	
2.4-Dimethylphenol	%	105			30-130	Pass	
2.4-Dinitrophenol	%	93			30-130	Pass	
2.4.5-Trichlorophenol	%	116			30-130	Pass	
2.4.6-Trichlorophenol	%	120			30-130	Pass	
2.6-Dichlorophenol	%	110			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	109			30-130	Pass	
4-Chloro-3-methylphenol	%	113			30-130	Pass	
4-Nitrophenol	%	130			30-130	Pass	
Acenaphthene	%	97			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	74			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	87			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	99			70-130	Pass	
Dibenz(a.h)anthracene	%	118			70-130	Pass	
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	108			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Pentachlorophenol	%	123			30-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Phenol	%	93			30-130	Pass	
Pyrene	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se13666	CP	%	105			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13666	CP	%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13666	CP	%	121			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13666	CP	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13666	CP	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13666	CP	%	129			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13666	CP	%	84			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13666	CP	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13666	CP	%	88			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13666	CP	%	106			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13666	CP	%	101			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se13666	CP	%	105			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13666	CP	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13666	CP	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13666	CP	%	97			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13666	CP	%	109			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13666	CP	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13666	CP	%	97			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se13666	CP	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13666	CP	%	97			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13666	CP	%	111			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13666	CP	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13666	CP	%	102			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13666	CP	%	87			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13666	CP	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13666	CP	%	106			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13666	CP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13666	CP	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13666	CP	%	113			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13666	CP	%	101			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Se13673	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Se13673	CP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se13674	CP	%	78			75-125	Pass	
Cadmium	S20-Se13674	CP	%	95			75-125	Pass	
Copper	S20-Se13674	CP	%	91			75-125	Pass	
Lead	S20-Se13674	CP	%	100			75-125	Pass	
Mercury	S20-Se13674	CP	%	121			75-125	Pass	
Zinc	S20-Se13674	CP	%	83			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Cyanide (free)	S20-Se13675	CP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Se13688	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Se13688	CP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se13688	CP	%	86			70-130	Pass	
Acenaphthylene	S20-Se13688	CP	%	80			70-130	Pass	
Anthracene	S20-Se13688	CP	%	91			70-130	Pass	
Benz(a)anthracene	S20-Se13688	CP	%	93			70-130	Pass	
Benzo(a)pyrene	S20-Se13688	CP	%	91			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se13688	CP	%	89			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se13688	CP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S20-Se13688	CP	%	82			70-130	Pass	
Chrysene	S20-Se13688	CP	%	84			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se13688	CP	%	101			70-130	Pass	
Fluoranthene	S20-Se13688	CP	%	79			70-130	Pass	
Fluorene	S20-Se13688	CP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se13688	CP	%	93			70-130	Pass	
Naphthalene	S20-Se13688	CP	%	89			70-130	Pass	
Phenanthrene	S20-Se13688	CP	%	90			70-130	Pass	
Pyrene	S20-Se13688	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se13699	CP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se13699	CP	%	87			70-130	Pass	
Toluene	S20-Se13699	CP	%	96			70-130	Pass	
Ethylbenzene	S20-Se13699	CP	%	100			70-130	Pass	
m&p-Xylenes	S20-Se13699	CP	%	102			70-130	Pass	
o-Xylene	S20-Se13699	CP	%	105			70-130	Pass	
Xylenes - Total*	S20-Se13699	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se13699	CP	%	80			70-130	Pass	
TRH C6-C10	S20-Se13699	CP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se13705	CP	%	118			75-125	Pass	
Cadmium	S20-Se13705	CP	%	117			75-125	Pass	
Chromium	S20-Se13705	CP	%	114			75-125	Pass	
Copper	S20-Se13705	CP	%	97			75-125	Pass	
Lead	S20-Se13705	CP	%	121			75-125	Pass	
Mercury	S20-Se13705	CP	%	116			75-125	Pass	
Nickel	S20-Se13705	CP	%	90			75-125	Pass	
Zinc	S20-Se13705	CP	%	92			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se13661	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S20-Se13661	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13661	CP	mg/kg	25	25	1.0	30%	Pass	
Copper	S20-Se13661	CP	mg/kg	35	30	16	30%	Pass	
Lead	S20-Se13661	CP	mg/kg	19	26	30	30%	Pass	
Manganese	S20-Se13661	CP	mg/kg	750	940	22	30%	Pass	
Mercury	S20-Se13661	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13661	CP	mg/kg	28	29	7.0	30%	Pass	
Zinc	S20-Se13661	CP	mg/kg	75	73	2.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13662	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13662	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorooctanesulfonic acid (PFOS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13662	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13662	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se13669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Se13669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se13669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Se13669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se13669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se13669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se13669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se13669	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se13669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se13669	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se13669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Se13669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se13669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Se13669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se13669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se13673	CP	mg/kg	2.2	< 2	35	30%	Fail	Q15
Cadmium	S20-Se13673	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13673	CP	mg/kg	850	650	26	30%	Pass	
Copper	S20-Se13673	CP	mg/kg	68	56	20	30%	Pass	
Lead	S20-Se13673	CP	mg/kg	47	28	50	30%	Fail	Q15
Manganese	S20-Se13673	CP	mg/kg	2500	2000	24	30%	Pass	
Mercury	S20-Se13673	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13673	CP	mg/kg	450	350	23	30%	Pass	
Zinc	S20-Se13673	CP	mg/kg	260	180	37	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (free)	S20-Se13675	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se13684	CP	mg/kg	12000	12000	<1	30%	Pass	
Arsenic	S20-Se13684	CP	mg/kg	2.7	2.2	23	30%	Pass	
Cadmium	S20-Se13684	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13684	CP	mg/kg	16	15	3.0	30%	Pass	
Copper	S20-Se13684	CP	mg/kg	23	17	30	30%	Pass	
Iron	S20-Se13684	CP	mg/kg	16000	13000	19	30%	Pass	
Lead	S20-Se13684	CP	mg/kg	7.6	7.0	8.0	30%	Pass	
Manganese	S20-Se13684	CP	mg/kg	360	280	24	30%	Pass	
Mercury	S20-Se13684	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13684	CP	mg/kg	15	12	22	30%	Pass	
Zinc	S20-Se13684	CP	mg/kg	35	28	24	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	S20-Se13694	CP	mg/kg	17000	19000	11	30%	Pass	
Arsenic	S20-Se13694	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S20-Se13694	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13694	CP	mg/kg	65	63	4.0	30%	Pass	
Copper	S20-Se13694	CP	mg/kg	28	29	3.0	30%	Pass	
Lead	S20-Se13694	CP	mg/kg	15	14	10	30%	Pass	
Manganese	S20-Se13694	CP	mg/kg	610	490	22	30%	Pass	
Mercury	S20-Se13694	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13694	CP	mg/kg	130	120	13	30%	Pass	
Zinc	S20-Se13694	CP	mg/kg	65	62	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se13704	CP	mg/kg	9.5	7.6	23	30%	Pass	
Cadmium	S20-Se13704	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13704	CP	mg/kg	150	140	11	30%	Pass	
Copper	S20-Se13704	CP	mg/kg	22	21	2.0	30%	Pass	
Lead	S20-Se13704	CP	mg/kg	16	15	8.0	30%	Pass	
Manganese	S20-Se13704	CP	mg/kg	280	240	14	30%	Pass	
Mercury	S20-Se13704	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13704	CP	mg/kg	32	31	2.0	30%	Pass	
Zinc	S20-Se13704	CP	mg/kg	29	27	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se13705	CP	%	8.0	7.9	1.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Se13709	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se13709	CP	mg/kg	61	94	43	30%	Fail	Q15
TRH C29-C36	S20-Se13709	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Se13709	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se13709	CP	mg/kg	< 100	120	44	30%	Fail	Q15
TRH >C34-C40	S20-Se13709	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se13709	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se13709	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se13709	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	S20-Se13709	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Chlorophenol	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S20-Se13709	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Nitrophenol	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dichlorophenol	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dimethylphenol	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S20-Se13709	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4.5-Trichlorophenol	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S20-Se13709	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Chloro-3-methylphenol	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Nitrophenol	S20-Se13709	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Pentachlorophenol	S20-Se13709	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	S20-Se13709	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se13715	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S20-Se13715	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13715	CP	mg/kg	190	210	10	30%	Pass	
Copper	S20-Se13715	CP	mg/kg	59	60	2.0	30%	Pass	
Lead	S20-Se13715	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	S20-Se13715	CP	mg/kg	1500	1300	16	30%	Pass	
Mercury	S20-Se13715	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13715	CP	mg/kg	420	400	6.0	30%	Pass	
Zinc	S20-Se13715	CP	mg/kg	110	110	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se13719	CP	%	22	20	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se13730	CP	mg/kg	5.9	3.7	45	30%	Fail	Q15
Cadmium	S20-Se13730	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se13730	CP	mg/kg	140	190	26	30%	Pass	
Copper	S20-Se13730	CP	mg/kg	46	28	50	30%	Fail	Q15
Lead	S20-Se13730	CP	mg/kg	22	12	57	30%	Fail	Q15
Mercury	S20-Se13730	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se13730	CP	mg/kg	180	170	3.0	30%	Pass	
Zinc	S20-Se13730	CP	mg/kg	150	62	81	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742676-W**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			**RIN02**	**RIN03**	**TS**	**TB**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se13722**	**S20-Se13723**	**S20-Se13724**	**S20-Se13725**
Date Sampled			**Sep 05, 2020**	**Sep 05, 2020**	**Sep 03, 2020**	**Sep 03, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	84	88	-	69
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	-
Styrene	0.001	mg/L	< 0.001	< 0.001	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Toluene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
4-Bromofluorobenzene (surr.)	1	%	84	88	-	-
Toluene-d8 (surr.)	1	%	90	91	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	64	-	-	-
p-Terphenyl-d14 (surr.)	1	%	66	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.001	mg/L	< 0.001	< 0.001	-	-
4.4'-DDD	0.0001	mg/L	< 0.0001	< 0.0001	-	-
4.4'-DDE	0.0001	mg/L	< 0.0001	< 0.0001	-	-
4.4'-DDT	0.0001	mg/L	< 0.0001	< 0.0001	-	-
a-BHC	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Aldrin	0.0001	mg/L	< 0.0001	< 0.0001	-	-
b-BHC	0.0001	mg/L	< 0.0001	< 0.0001	-	-
d-BHC	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Dieldrin	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endosulfan I	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endosulfan II	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endosulfan sulphate	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endrin	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endrin aldehyde	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Endrin ketone	0.0001	mg/L	< 0.0001	< 0.0001	-	-
g-BHC (Lindane)	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Heptachlor	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Heptachlor epoxide	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Hexachlorobenzene	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Methoxychlor	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Toxaphene	0.01	mg/L	< 0.01	< 0.01	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	< 0.0001	< 0.0001	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	< 0.001	< 0.001	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	< 0.001	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	114	71	-	-
Tetrachloro-m-xylene (surr.)	1	%	98	65	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1221	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1232	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1242	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1248	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1254	0.001	mg/L	< 0.001	< 0.001	-	-
Aroclor-1260	0.001	mg/L	< 0.001	< 0.001	-	-
Total PCB*	0.001	mg/L	< 0.001	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	114	71	-	-
Tetrachloro-m-xylene (surr.)	1	%	98	65	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	-	-	-
1-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
1-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
1.2-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.4-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3.5-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.4-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
2-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Chlorophenol	0.003	mg/L	< 0.003	-	-	-
2-Methylnaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	-	-	-
2-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
2-Nitroaniline	0.005	mg/L	< 0.005	-	-	-
2-Nitrophenol	0.01	mg/L	< 0.01	-	-	-
2-Picoline	0.005	mg/L	< 0.005	-	-	-
2.3.4.6-Tetrachlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dimethylphenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dinitrophenol	0.03	mg/L	< 0.03	-	-	-
2.4-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.6-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.6-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	-	-	-
3-Methylcholanthrene	0.005	mg/L	< 0.005	-	-	-
3.3'-Dichlorobenzidine	0.005	mg/L	< 0.005	-	-	-
4-Aminobiphenyl	0.005	mg/L	< 0.005	-	-	-
4-Bromophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	-	-	-
4-Chlorophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Nitrophenol	0.03	mg/L	< 0.03	-	-	-
4.4'-DDD	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
4.4'-DDE	0.005	mg/L	< 0.005	-	-	-
4.4'-DDT	0.005	mg/L	< 0.005	-	-	-
7.12-Dimethylbenz(a)anthracene	0.005	mg/L	< 0.005	-	-	-
a-BHC	0.005	mg/L	< 0.005	-	-	-
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Acetophenone	0.005	mg/L	< 0.005	-	-	-
Aldrin	0.005	mg/L	< 0.005	-	-	-
Aniline	0.005	mg/L	< 0.005	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
b-BHC	0.005	mg/L	< 0.005	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Benzyl chloride	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroethoxy)methane	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroisopropyl)ether	0.005	mg/L	< 0.005	-	-	-
Bis(2-ethylhexyl)phthalate	0.005	mg/L	< 0.005	-	-	-
Butyl benzyl phthalate	0.005	mg/L	< 0.005	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
d-BHC	0.005	mg/L	< 0.005	-	-	-
Di-n-butyl phthalate	0.005	mg/L	< 0.005	-	-	-
Di-n-octyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.j)acridine	0.005	mg/L	< 0.005	-	-	-
Dibenzofuran	0.005	mg/L	< 0.005	-	-	-
Dieldrin	0.005	mg/L	< 0.005	-	-	-
Diethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethylaminoazobenzene	0.005	mg/L	< 0.005	-	-	-
Diphenylamine	0.005	mg/L	< 0.005	-	-	-
Endosulfan I	0.005	mg/L	< 0.005	-	-	-
Endosulfan II	0.005	mg/L	< 0.005	-	-	-
Endosulfan sulphate	0.005	mg/L	< 0.005	-	-	-
Endrin	0.005	mg/L	< 0.005	-	-	-
Endrin aldehyde	0.005	mg/L	< 0.005	-	-	-
Endrin ketone	0.005	mg/L	< 0.005	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
g-BHC (Lindane)	0.005	mg/L	< 0.005	-	-	-
Heptachlor	0.005	mg/L	< 0.005	-	-	-
Heptachlor epoxide	0.005	mg/L	< 0.005	-	-	-
Hexachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Hexachlorobutadiene	0.005	mg/L	< 0.005	-	-	-
Hexachlorocyclopentadiene	0.005	mg/L	< 0.005	-	-	-
Hexachloroethane	0.005	mg/L	< 0.005	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Methoxychlor	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodibutylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodipropylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosopiperidine	0.005	mg/L	< 0.005	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Nitrobenzene	0.05	mg/L	< 0.05	-	-	-
Pentachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachloronitrobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachlorophenol	0.01	mg/L	< 0.01	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Phenol	0.003	mg/L	< 0.003	-	-	-
Pronamide	0.005	mg/L	< 0.005	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Trifluralin	0.005	mg/L	< 0.005	-	-	-
Phenol-d6 (surr.)	1	%	INT	-	-	-
Nitrobenzene-d5 (surr.)	1	%	64	-	-	-
2-Fluorobiphenyl (surr.)	1	%	64	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	46	-	-	-
Heavy Metals						
Aluminium (filtered)	0.05	mg/L	< 0.05	-	-	-
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Iron (filtered)	0.05	mg/L	< 0.05	-	-	-
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Manganese (filtered)	0.005	mg/L	< 0.005	-	-	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Nickel (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	-	-	-
13C4-PFBA (surr.)	1	%	117	-	-	-
13C5-PFPeA (surr.)	1	%	106	-	-	-
13C5-PFHxA (surr.)	1	%	121	-	-	-
13C4-PFHpA (surr.)	1	%	99	-	-	-
13C8-PFOA (surr.)	1	%	110	-	-	-
13C5-PFNA (surr.)	1	%	106	-	-	-
13C6-PFDA (surr.)	1	%	120	-	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	115	-	-	-
13C2-PFDoDA (surr.)	1	%	122	-	-	-
13C2-PFTeDA (surr.)	1	%	74	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	-	-	-
13C8-FOSA (surr.)	1	%	111	-	-	-
D3-N-MeFOSA (surr.)	1	%	39	-	-	-
D5-N-EtFOSA (surr.)	1	%	36	-	-	-
D7-N-MeFOSE (surr.)	1	%	102	-	-	-
D9-N-EtFOSE (surr.)	1	%	109	-	-	-
D5-N-EtFOSAA (surr.)	1	%	117	-	-	-
D3-N-MeFOSAA (surr.)	1	%	57	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	-	-	-
13C3-PFBS (surr.)	1	%	114	-	-	-
18O2-PFHxS (surr.)	1	%	118	-	-	-
13C8-PFOS (surr.)	1	%	141	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	-	-	-
13C2-4:2 FTSA (surr.)	1	%	132	-	-	-
13C2-6:2 FTSA (surr.)	1	%	144	-	-	-
13C2-8:2 FTSA (surr.)	1	%	157	-	-	-
13C2-10:2 FTSA (surr.)	1	%	96	-	-	-

Client Sample ID			RIN02	RIN03	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13722	S20-Se13723	S20-Se13724	S20-Se13725
Date Sampled			Sep 05, 2020	Sep 05, 2020	Sep 03, 2020	Sep 03, 2020
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-	-	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	-	< 0.00001	-	-
Acenaphthylene	0.00001	mg/L	-	< 0.00001	-	-
Anthracene	0.00001	mg/L	-	< 0.00001	-	-
Benz(a)anthracene	0.00001	mg/L	-	< 0.00001	-	-
Benzo(a)pyrene	0.00001	mg/L	-	< 0.00001	-	-
Benzo(b&j)fluoranthene	0.00001	mg/L	-	< 0.00001	-	-
Benzo(g.h.i)perylene	0.00001	mg/L	-	< 0.00001	-	-
Benzo(k)fluoranthene	0.00001	mg/L	-	< 0.00001	-	-
Chrysene	0.00001	mg/L	-	< 0.00001	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	-	< 0.00001	-	-
Fluoranthene	0.00001	mg/L	-	< 0.00001	-	-
Fluorene	0.00001	mg/L	-	< 0.00001	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	-	< 0.00001	-	-
Naphthalene	0.00001	mg/L	-	< 0.00001	-	-
Phenanthrene	0.00001	mg/L	-	< 0.00001	-	-
Pyrene	0.00001	mg/L	-	< 0.00001	-	-
Total PAH*	0.00001	mg/L	-	< 0.00001	-	-
2-Fluorobiphenyl (surr.)	1	%	-	61	-	-
p-Terphenyl-d14 (surr.)	1	%	-	63	-	-
Ammonia (as N)	0.01	mg/L	-	< 0.01	-	-
Nitrate & Nitrite (as N)	0.05	mg/L	-	2.7	-	-
Nitrate (as N)	0.02	mg/L	-	2.7	-	-
Nitrite (as N)	0.02	mg/L	-	< 0.02	-	-
Organic Nitrogen (as N)*	0.2	mg/L	-	< 0.2	-	-
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	-	< 0.2	-	-
Total Nitrogen (as N)*	0.2	mg/L	-	2.7	-	-
BTEX						
Benzene	1	%	-	-	120	-
Ethylbenzene	1	%	-	-	110	-
m&p-Xylenes	1	%	-	-	110	-
o-Xylene	1	%	-	-	93	-
Toluene	1	%	-	-	110	-
Xylenes - Total	1	%	-	-	100	-
4-Bromofluorobenzene (surr.)	1	%	-	-	66	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B7 (filtered metals/PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Sep 10, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 10, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8 filtered	Melbourne	Sep 10, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Volatile Organics	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Semivolatile Organics	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2190 SVOC in Water & Soil by GC-MS			
Heavy Metals (filtered)	Melbourne	Sep 10, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B7 (filtered metals)			
Polycyclic Aromatic Hydrocarbons	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Nitrogens (speciated)			
Ammonia (as N)	Melbourne	Sep 10, 2020	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate & Nitrite (as N)	Melbourne	Sep 14, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrate (as N)	Melbourne	Sep 10, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Sep 14, 2020	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Sep 09, 2020	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Sep 10, 2020	7 Days
- Method: LTM-INO-4310 TKN in Waters & Soils by FIA			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271		X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																		X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																														
Newcastle Laboratory																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	JB01_0.4-0.5	Sep 05, 2020		Soil	S20-Se13658			X																X			X				
2	JB02_0.5-0.6	Sep 05, 2020		Soil	S20-Se13659			X													X				X			X				
3	JB03_0.3-0.4	Sep 05, 2020		Soil	S20-Se13660			X													X				X			X				
4	JB03_2.4-2.5	Sep 05, 2020		Soil	S20-Se13661			X													X				X			X				
5	JB06_2.0-2.1	Sep 05, 2020		Soil	S20-Se13662			X																	X			X			X	
6	JB07_0-0.1	Sep 05, 2020		Soil	S20-Se13663			X									X	X							X							
7	JB08_1.5-1.6	Sep 05, 2020		Soil	S20-Se13664												X	X							X							
8	JB13_0.5-0.6	Sep 05, 2020		Soil	S20-Se13665			X																	X			X				
9	JB14_0.5-0.6	Sep 05, 2020		Soil	S20-Se13666			X													X				X			X			X	

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Company Name: JBS & G Australia (NSW) P/L
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NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
10	JB14A_0.5-0.6	Sep 05, 2020		Soil	S20-Se13667			X														X					X			X					
11	JB14A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13668			X																												
12	JB14B_0-0.1	Sep 05, 2020		Soil	S20-Se13669			X																			X			X						
13	JB14B_1.5-1.6	Sep 05, 2020		Soil	S20-Se13670			X									X	X	X								X	X								
14	JB14D_0-0.1	Sep 05, 2020		Soil	S20-Se13671			X										X	X								X									
15	JB20_0-0.1	Sep 05, 2020		Soil	S20-Se13672					X																										
16	JB20_0.2-0.3	Sep 05, 2020		Soil	S20-Se13673																	X					X			X						
17	JB21_0-0.1	Sep 05, 2020		Soil	S20-Se13674			X											X								X									
18	JB22A_0-0.1	Sep 05, 2020		Soil	S20-Se13675	X		X			X		X		X							X			X		X			X						
19	JB22A_FRAG	Sep 05, 2020		Building Materials	S20-Se13676				X																											
20	JB22B_0-0.1	Sep 05, 2020		Soil	S20-Se13677			X										X	X								X									
21	JB27_0-0.1	Sep 04, 2020		Soil	S20-Se13678	X		X			X		X		X		X					X			X		X	X		X						

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
22	JB27_0.5-0.6	Sep 04, 2020		Soil	S20-Se13679	X					X		X		X			X	X							X									
23	JB28_0.2-0.3	Sep 05, 2020		Soil	S20-Se13680																	X			X		X		X	X			X			
24	JB28_0.5-0.6	Sep 05, 2020		Soil	S20-Se13681																						X				X					
25	JB28_1.5-1.6	Sep 05, 2020		Soil	S20-Se13682																	X			X		X		X		X					
26	JB29_0.1-0.2	Sep 05, 2020		Soil	S20-Se13683																						X				X					
27	JB30_0.05-0.1	Sep 05, 2020		Soil	S20-Se13684													X	X								X									
28	JB30_3.0-3.1	Sep 04, 2020		Soil	S20-Se13685			X																			X				X					
29	JB31_0.05-0.1	Sep 04, 2020		Soil	S20-Se13686	X		X			X		X		X							X			X		X		X	X			X			
30	JB31_0.9-0.1	Sep 04, 2020		Soil	S20-Se13687																						X				X					
31	JB35_2.1-2.2	Sep 04, 2020		Soil	S20-Se13688	X					X		X		X										X		X				X					
32	JB35_4.0-4.1	Sep 04, 2020		Soil	S20-Se13689			X																			X				X					
33	JB36_0.05-0.1	Sep 04, 2020		Soil	S20-Se13690	X					X		X		X												X				X					
34	JB37_0.05-0.1	Sep 04, 2020		Soil	S20-Se13691																						X				X					

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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X			
Perth Laboratory - NATA Site # 23736																																			
35	JB37_4.0-4.1	Sep 04, 2020		Soil	S20-Se13692																					X			X						
36	JB38_0.1-0.2	Sep 04, 2020		Soil	S20-Se13693																	X			X		X			X						
37	JB38_1.8-1.9	Sep 04, 2020		Soil	S20-Se13694																						X			X						
38	JB39_0.2-0.3	Sep 04, 2020		Soil	S20-Se13695	X					X		X		X							X			X		X		X	X						
39	JB41_0.1-0.2	Sep 05, 2020		Soil	S20-Se13696	X					X		X		X							X			X		X			X			X			
40	JB42_0.05-0.1	Sep 05, 2020		Soil	S20-Se13697																	X			X		X			X						
41	JB43_0-0.1	Sep 05, 2020		Soil	S20-Se13698													X	X								X									
42	JB43A_0-0.1	Sep 05, 2020		Soil	S20-Se13699			X																			X			X						
43	JB44_0-0.1	Sep 05, 2020		Soil	S20-Se13700			X										X	X								X									
44	JB45_0.05-0.1	Sep 05, 2020		Soil	S20-Se13701													X	X								X									
45	JB49_0.05-0.1	Sep 05, 2020		Soil	S20-Se13702			X										X	X								X									
46	JB50_0.1-0.2	Sep 04, 2020		Soil	S20-Se13703																				X		X			X						
47	JB50_3.3-3.4	Sep 04, 2020		Soil	S20-Se13704			X										X	X			X					X									

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X	X		X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																						X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
48	JB63_0.1-0.2	Sep 04, 2020		Soil	S20-Se13705	X					X		X		X							X			X		X		X	X			X		
49	JB63_2.1-2.2	Sep 04, 2020		Soil	S20-Se13706																				X		X		X			X			
50	JB65_0.05-0.1	Sep 04, 2020		Soil	S20-Se13707			X																			X			X					
51	JB67_3.0-3.1	Sep 05, 2020		Soil	S20-Se13708			X									X	X	X			X					X	X							
52	JB68_1.3-1.4	Sep 04, 2020		Soil	S20-Se13709																	X					X			X					
53	JB70_0-0.1	Sep 05, 2020		Soil	S20-Se13710			X										X	X								X								
54	JB80_0-0.1	Sep 05, 2020		Soil	S20-Se13711			X										X	X								X								
55	JB93_0.4-0.5	Sep 05, 2020		Soil	S20-Se13712																	X			X		X		X	X					
56	JB93_2.0-2.1	Sep 05, 2020		Soil	S20-Se13713														X						X		X					X			
57	JB101_0.15-0.2	Sep 05, 2020		Soil	S20-Se13714													X	X								X								
58	JB103_0.4-0.5	Sep 05, 2020		Soil	S20-Se13715																				X		X			X					
59	JB105_0.05-	Sep 05, 2020		Soil	S20-Se13716																	X			X		X			X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
	0.1																																			
60	QA20200904-1	Sep 04, 2020		Soil	S20-Se13717	X					X		X		X							X					X				X				
61	QA20200905-1	Sep 05, 2020		Soil	S20-Se13718	X		X			X		X		X							X			X		X				X				
62	QA20200905-2	Sep 05, 2020		Soil	S20-Se13719																					X							X		
63	QA20200905-CK1	Sep 05, 2020		Soil	S20-Se13720			X														X					X				X				
64	QA20200905-CK2	Sep 05, 2020		Soil	S20-Se13721			X														X					X				X				
65	RIN02	Sep 05, 2020		Water	S20-Se13722		X							X		X					X			X				X			X		X		
66	RIN03	Sep 05, 2020		Water	S20-Se13723																X		X	X											X
67	TS	Sep 03, 2020		Water	S20-Se13724																													X		

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
68	TB	Sep 03, 2020		Water	S20-Se13725															X															
69	JB100_0.0-0.1	Sep 04, 2020		Soil	S20-Se13726			X										X	X							X									
70	JB100_0.4-0.5	Sep 04, 2020		Soil	S20-Se13727			X										X	X							X									
71	JB100_1.2-1.3	Sep 04, 2020		Soil	S20-Se13728			X										X	X							X									
72	JB98_0.0-0.1	Sep 04, 2020		Soil	S20-Se13729			X									X	X	X			X				X	X								
73	JB98_1.9-2.0	Sep 04, 2020		Soil	S20-Se13730			X										X	X							X									
74	JB96_0.0-0.1	Sep 04, 2020		Soil	S20-Se13731			X																											
75	JB95_0.9-1.0	Sep 04, 2020		Soil	S20-Se13732			X																											
76	JB94_0.9-1.0	Sep 04, 2020		Soil	S20-Se13733			X																											
77	JB94_2.4-2.5	Sep 04, 2020		Soil	S20-Se13734			X																											
78	JB89_0.4-0.5	Sep 04, 2020		Soil	S20-Se13735			X																											
79	JB52_0.5-0.6	Sep 04, 2020		Soil	S20-Se13736			X																X		X			X						
80	JB89A_0.2-0.3	Sep 04, 2020		Soil	S20-Se13737			X																											

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
81	JB98-A	Sep 04, 2020		Building Materials	S20-Se13738				X																											
82	JB96-A	Sep 04, 2020		Building Materials	S20-Se13739				X																											
83	JB94-A	Sep 04, 2020		Building Materials	S20-Se13740				X																											
84	JB01_0-0.1	Sep 05, 2020		Soil	S20-Se13741							X																								
85	JB01_1.5-1.6	Sep 05, 2020		Soil	S20-Se13742							X																								
86	JB02_0-0.1	Sep 05, 2020		Soil	S20-Se13743							X																								
87	JB02_1.5-1.6	Sep 05, 2020		Soil	S20-Se13744							X																								
88	JB02_2.6-2.7	Sep 05, 2020		Soil	S20-Se13745							X																								
89	JB03_0-0.1	Sep 05, 2020		Soil	S20-Se13746							X																								
90	JB03_1.0-1.1	Sep 05, 2020		Soil	S20-Se13747							X																								
91	JB03_1.3-1.4	Sep 05, 2020		Soil	S20-Se13748							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
92	JB03_3.0-3.1	Sep 05, 2020		Soil	S20-Se13749							X																								
93	JB06_0-0.1	Sep 05, 2020		Soil	S20-Se13750							X																								
94	JB06_0.5-0.6	Sep 05, 2020		Soil	S20-Se13751							X																								
95	JB06_1.1-1.2	Sep 05, 2020		Soil	S20-Se13752							X																								
96	JB06_2.8-2.9	Sep 05, 2020		Soil	S20-Se13753							X																								
97	JB07_0.5-0.6	Sep 05, 2020		Soil	S20-Se13754							X																								
98	JB07_1.5-1.6	Sep 05, 2020		Soil	S20-Se13755							X																								
99	JB07_2.7-2.8	Sep 05, 2020		Soil	S20-Se13756							X																								
100	JB08_0-0.1	Sep 05, 2020		Soil	S20-Se13757							X																								
101	JB08_0.5-0.6	Sep 05, 2020		Soil	S20-Se13758							X																								
102	JB08_2.3-2.3	Sep 05, 2020		Soil	S20-Se13759							X																								
103	JB09_0-0.1	Sep 05, 2020		Soil	S20-Se13760							X																								
104	JB09_0.5-0.6	Sep 05, 2020		Soil	S20-Se13761							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
105	JB09_1.1-1.2	Sep 05, 2020		Soil	S20-Se13762							X																							
106	JB09_1.6-1.7	Sep 05, 2020		Soil	S20-Se13763							X																							
107	JB13_0-0.1	Sep 05, 2020		Soil	S20-Se13764							X																							
108	JB14_0-0.1	Sep 05, 2020		Soil	S20-Se13765							X																							
109	JB14_1.0-1.1	Sep 05, 2020		Soil	S20-Se13766							X																							
110	JB14_1.5-1.6	Sep 05, 2020		Soil	S20-Se13767							X																							
111	JB14_1.6-1.7	Sep 05, 2020		Soil	S20-Se13768							X																							
112	JB14A_0-0.1	Sep 05, 2020		Soil	S20-Se13769							X																							
113	JB14A_1.5-1.6	Sep 05, 2020		Soil	S20-Se13770							X																							
114	JB14A_1.8-1.9	Sep 05, 2020		Soil	S20-Se13771							X																							
115	JB14B_0.5-0.6	Sep 05, 2020		Soil	S20-Se13772							X																							
116	JB14B_1.7-1.8	Sep 05, 2020		Soil	S20-Se13773							X																							
117	JB14C_0-0.1	Sep 05, 2020		Soil	S20-Se13774							X																							

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Project Name: PLE
Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X										X	X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
118	JB14C_0.5-0.6	Sep 05, 2020		Soil	S20-Se13775							X																								
119	JB14C_1.0-1.1	Sep 05, 2020		Soil	S20-Se13776							X																								
120	JB14C_1.5-1.6	Sep 05, 2020		Soil	S20-Se13777							X																								
121	JB14D_0.5-0.6	Sep 05, 2020		Soil	S20-Se13778							X																								
122	JB14D_1.0-1.1	Sep 05, 2020		Soil	S20-Se13779							X																								
123	JB14D_1.3-1.4	Sep 05, 2020		Soil	S20-Se13780							X																								
124	JB21_0.2-0.3	Sep 05, 2020		Soil	S20-Se13781							X																								
125	JB22B_0.3-0.4	Sep 05, 2020		Soil	S20-Se13782							X																								
126	JB27_1.0-1.1	Sep 04, 2020		Soil	S20-Se13783							X																								
127	JB28_0.7-0.8	Sep 05, 2020		Soil	S20-Se13784							X																								
128	JB28_2.1-2.2	Sep 05, 2020		Soil	S20-Se13785							X																								
129	JB29_0.5-0.6	Sep 05, 2020		Soil	S20-Se13786							X																								
130	JB29_1.6-1.7	Sep 05, 2020		Soil	S20-Se13787							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
131	JB30_0.5-0.6	Sep 05, 2020		Soil	S20-Se13788							X																							
132	JB30_1.5-1.6	Sep 04, 2020		Soil	S20-Se13789							X																							
133	JB30_2.1-2.2	Sep 04, 2020		Soil	S20-Se13790							X																							
134	JB30_3.7-3.8	Sep 04, 2020		Soil	S20-Se13791							X																							
135	JB31_0.4-0.5	Sep 04, 2020		Soil	S20-Se13792							X																							
136	JB31_2.0-2.1	Sep 04, 2020		Soil	S20-Se13793							X																							
137	JB31_2.4-2.5	Sep 04, 2020		Soil	S20-Se13794							X																							
138	JB31_2.8-2.9	Sep 04, 2020		Soil	S20-Se13795							X																							
139	JB35_0-0.1	Sep 04, 2020		Soil	S20-Se13796							X																							
140	JB35_0.5-0.6	Sep 04, 2020		Soil	S20-Se13797							X																							
141	JB35_1.0-1.1	Sep 04, 2020		Soil	S20-Se13798							X																							
142	JB35_2.4-2.5	Sep 04, 2020		Soil	S20-Se13799							X																							
143	JB35_3.1-3.2	Sep 04, 2020		Soil	S20-Se13800							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
144	JB35_5.0-5.1	Sep 04, 2020		Soil	S20-Se13801							X																								
145	JB36_1.0-1.1	Sep 04, 2020		Soil	S20-Se13802							X																								
146	JB36_2.0-2.1	Sep 04, 2020		Soil	S20-Se13803							X																								
147	JB36_3.2-3.3	Sep 04, 2020		Soil	S20-Se13804							X																								
148	JB37_0.6-0.7	Sep 04, 2020		Soil	S20-Se13805							X																								
149	JB37_1.5-1.6	Sep 04, 2020		Soil	S20-Se13806							X																								
150	JB37_2.6-2.7	Sep 04, 2020		Soil	S20-Se13807							X																								
151	JB37_4.1-4.2	Sep 04, 2020		Soil	S20-Se13808							X																								
152	JB38_1.0-1.1	Sep 04, 2020		Soil	S20-Se13809							X																								
153	JB38_2.0-2.1	Sep 04, 2020		Soil	S20-Se13810							X																								
154	JB38_3.0-3.1	Sep 04, 2020		Soil	S20-Se13811							X																								
155	JB39_0.9-1.0	Sep 04, 2020		Soil	S20-Se13812							X																								
156	JB41_1.0-1.1	Sep 05, 2020		Soil	S20-Se13813							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
157	JB42_1.0-1.1	Sep 05, 2020		Soil	S20-Se13814							X																							
158	JB43_0.5-0.6	Sep 05, 2020		Soil	S20-Se13815							X																							
159	JB43A_0.4-0.5	Sep 05, 2020		Soil	S20-Se13816							X																							
160	JB43A_1.0-1.1	Sep 05, 2020		Soil	S20-Se13817							X																							
161	JB44_0.3-0.4	Sep 05, 2020		Soil	S20-Se13818							X																							
162	JB44_1.0-1.1	Sep 05, 2020		Soil	S20-Se13819							X																							
163	JB45_0.5-0.6	Sep 05, 2020		Soil	S20-Se13820							X																							
164	JB49_0.5-0.6	Sep 05, 2020		Soil	S20-Se13821							X																							
165	JB49_2.0-2.1	Sep 05, 2020		Soil	S20-Se13822							X																							
166	JB49_2.5-2.6	Sep 05, 2020		Soil	S20-Se13823							X																							
167	JB50_0.3-0.4	Sep 04, 2020		Soil	S20-Se13824							X																							
168	JB50_0.5-0.6	Sep 04, 2020		Soil	S20-Se13825							X																							
169	JB50_2.4-2.5	Sep 04, 2020		Soil	S20-Se13826							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
170	JB50_3.0-3.1	Sep 04, 2020		Soil	S20-Se13827							X																								
171	JB50_4.8-4.9	Sep 04, 2020		Soil	S20-Se13828							X																								
172	JB63_0.5-0.6	Sep 04, 2020		Soil	S20-Se13829							X																								
173	JB63_1.5-1.6	Sep 04, 2020		Soil	S20-Se13830							X																								
174	JB63_2.6-2.7	Sep 04, 2020		Soil	S20-Se13831							X																								
175	JB65_0.2-0.3	Sep 04, 2020		Soil	S20-Se13832							X																								
176	JB65_1.0-1.1	Sep 04, 2020		Soil	S20-Se13833							X																								
177	JB65_1.2-1.3	Sep 04, 2020		Soil	S20-Se13834							X																								
178	JB65_2.1-2.2	Sep 04, 2020		Soil	S20-Se13835							X																								
179	JB67_0-0.1	Sep 05, 2020		Soil	S20-Se13836							X																								
180	JB67_0.5-0.6	Sep 05, 2020		Soil	S20-Se13837							X																								
181	JB67_1.0-1.1	Sep 05, 2020		Soil	S20-Se13838							X																								
182	JB67_1.5-1.6	Sep 05, 2020		Soil	S20-Se13839							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
183	JB67_2.0-2.1	Sep 05, 2020		Soil	S20-Se13840							X																								
184	JB68_0.05-0.1	Sep 04, 2020		Soil	S20-Se13841							X																								
185	JB68_0.5-0.6	Sep 04, 2020		Soil	S20-Se13842							X																								
186	JB68_2.3-2.4	Sep 04, 2020		Soil	S20-Se13843							X																								
187	JB69_0.05-0.1	Sep 04, 2020		Soil	S20-Se13844							X																								
188	JB69_0.4-0.5	Sep 04, 2020		Soil	S20-Se13845							X																								
189	JB69_0.7-0.8	Sep 04, 2020		Soil	S20-Se13846							X																								
190	JB69_3.3-3.4	Sep 04, 2020		Soil	S20-Se13847							X																								
191	JB69_3.8-3.9	Sep 04, 2020		Soil	S20-Se13848							X																								
192	JB70_0.5-0.6	Sep 05, 2020		Soil	S20-Se13849							X																								
193	JB70_1.0-1.1	Sep 05, 2020		Soil	S20-Se13850							X																								
194	JB70_2.1-2.2	Sep 05, 2020		Soil	S20-Se13851							X																								
195	JB80_0.5-0.6	Sep 05, 2020		Soil	S20-Se13852							X																								

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742676
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Aluminium	Aluminium (filtered)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Cyanide (free)	HOLD	Iron	Iron (filtered)	Manganese	Manganese (filtered)	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B13: OCP/PCB	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Semivolatile Organics	Eurofins Suite B7	Eurofins Suite B7 (filtered metals)	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
196	JB80_1.0-1.1	Sep 05, 2020		Soil	S20-Se13853							X																								
197	JB93_1.0-1.1	Sep 05, 2020		Soil	S20-Se13854							X																								
198	JB93_2.5-2.6	Sep 05, 2020		Soil	S20-Se13855							X																								
199	JB101_1.0-1.1	Sep 05, 2020		Soil	S20-Se13856							X																								
200	JB101_1.5-1.6	Sep 05, 2020		Soil	S20-Se13857							X																								
201	JB101_2.3-2.4	Sep 05, 2020		Soil	S20-Se13858							X																								
202	JB103_0-0.1	Sep 05, 2020		Soil	S20-Se13859							X																								
203	JB104_0.2-0.3	Sep 05, 2020		Soil	S20-Se13860							X																								
204	JB104_1.0-1.1	Sep 05, 2020		Soil	S20-Se13861							X																								
205	JB105_0.5-0.6	Sep 05, 2020		Soil	S20-Se13862							X																								
206	QA20200904-2	Sep 04, 2020		Soil	S20-Se13863							X																								
207	JB99_0.1-0.2	Sep 04, 2020		Soil	S20-Se13864							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
208	JB99_0.4-0.5	Sep 04, 2020		Soil	S20-Se13865							X																								
209	JB98_0.4-0.5	Sep 04, 2020		Soil	S20-Se13866							X																								
210	JB98_0.9-1.0	Sep 04, 2020		Soil	S20-Se13867							X																								
211	JB97_0.1-0.2	Sep 04, 2020		Soil	S20-Se13868							X																								
212	JB97_0.4-0.5	Sep 04, 2020		Soil	S20-Se13869							X																								
213	JB97_0.9-1.0	Sep 04, 2020		Soil	S20-Se13870							X																								
214	JB97_1.9-2.0	Sep 04, 2020		Soil	S20-Se13871							X																								
215	JB96_0.4-0.5	Sep 04, 2020		Soil	S20-Se13872							X																								
216	JB96_0.9-1.0	Sep 04, 2020		Soil	S20-Se13873							X																								
217	JB96_1.9-2.0	Sep 04, 2020		Soil	S20-Se13874							X																								
218	JB95_0.1-0.2	Sep 04, 2020		Soil	S20-Se13875							X																								
219	JB95_1.6-1.7	Sep 04, 2020		Soil	S20-Se13876							X																								
220	JB95_1.9-2.0	Sep 04, 2020		Soil	S20-Se13877							X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X							X											X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																			
221	JB94_0.1-0.2	Sep 04, 2020		Soil	S20-Se13878							X																							
222	JB94_1.9-2.0	Sep 04, 2020		Soil	S20-Se13879							X																							
223	JB89_0.1-0.2	Sep 04, 2020		Soil	S20-Se13880							X																							
224	JB89_1.8-1.9	Sep 04, 2020		Soil	S20-Se13881							X																							
225	JB89_2.3-2.4	Sep 04, 2020		Soil	S20-Se13882							X																							
226	JB52_0.1-0.2	Sep 04, 2020		Soil	S20-Se13883							X																							
227	JB52_0.9-1.0	Sep 04, 2020		Soil	S20-Se13884							X																							
228	JB52A_0.0-0.1	Sep 04, 2020		Soil	S20-Se13885							X																							
229	JB90_0.2-0.3	Sep 04, 2020		Soil	S20-Se13886							X																							
230	JB90_0.5-0.6	Sep 04, 2020		Soil	S20-Se13887							X																							
231	JB34_0.2-0.3	Sep 04, 2020		Soil	S20-Se13888							X																							
232	JB34_0.6-0.7	Sep 04, 2020		Soil	S20-Se13889							X																							
233	JB34_1.2-1.3	Sep 04, 2020		Soil	S20-Se13890							X																							

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Melbourne Laboratory - NATA Site # 1254 & 14271							X							X		X					X	X	X	X		X	X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																							X			X	X	X					X		
Perth Laboratory - NATA Site # 23736																																				
234	JB91_0-0.1	Sep 04, 2020		Soil	S20-Se13891							X																								
235	JB91_0.5-0.6	Sep 04, 2020		Soil	S20-Se13892							X																								
236	JB91_1.8-1.9	Sep 04, 2020		Soil	S20-Se13893							X																								
237	JB60_0.3-0.4	Sep 04, 2020		Soil	S20-Se13894			X														X			X		X			X					
238	JB60_0.8-0.9	Sep 04, 2020		Soil	S20-Se13895							X																								
239	JB60_1.1-1.2	Sep 04, 2020		Soil	S20-Se13896							X																								
Test Counts						11	1	44	4	1	11	155	11	1	11	1	4	21	23	1	29	29	1	22	22	68	68	4	8	43	1	2	8	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.001			0.001	Pass	
4.4'-DDD	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDE	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDT	mg/L	< 0.0001			0.0001	Pass	
a-BHC	mg/L	< 0.0001			0.0001	Pass	
Aldrin	mg/L	< 0.0001			0.0001	Pass	
b-BHC	mg/L	< 0.0001			0.0001	Pass	
d-BHC	mg/L	< 0.0001			0.0001	Pass	
Dieldrin	mg/L	< 0.0001			0.0001	Pass	
Endosulfan I	mg/L	< 0.0001			0.0001	Pass	
Endosulfan II	mg/L	< 0.0001			0.0001	Pass	
Endosulfan sulphate	mg/L	< 0.0001			0.0001	Pass	
Endrin	mg/L	< 0.0001			0.0001	Pass	
Endrin aldehyde	mg/L	< 0.0001			0.0001	Pass	
Endrin ketone	mg/L	< 0.0001			0.0001	Pass	
g-BHC (Lindane)	mg/L	< 0.0001			0.0001	Pass	
Heptachlor	mg/L	< 0.0001			0.0001	Pass	
Heptachlor epoxide	mg/L	< 0.0001			0.0001	Pass	
Hexachlorobenzene	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	mg/L	< 0.0001			0.0001	Pass	
Toxaphene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.001			0.001	Pass	
Aroclor-1221	mg/L	< 0.001			0.001	Pass	
Aroclor-1232	mg/L	< 0.001			0.001	Pass	
Aroclor-1242	mg/L	< 0.001			0.001	Pass	
Aroclor-1248	mg/L	< 0.001			0.001	Pass	
Aroclor-1254	mg/L	< 0.001			0.001	Pass	
Aroclor-1260	mg/L	< 0.001			0.001	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
1-Chloronaphthalene	mg/L	< 0.005			0.005	Pass	
1-Naphthylamine	mg/L	< 0.005			0.005	Pass	
1.2-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.3-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.3.4-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.3.5-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.4-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.2.4.5-Tetrachlorobenzene	mg/L	< 0.005			0.005	Pass	
1.3-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.3.5-Trichlorobenzene	mg/L	< 0.005			0.005	Pass	
1.4-Dichlorobenzene	mg/L	< 0.005			0.005	Pass	
2-Chloronaphthalene	mg/L	< 0.005			0.005	Pass	
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2-Methylnaphthalene	mg/L	< 0.005			0.005	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Naphthylamine	mg/L	< 0.005			0.005	Pass	
2-Nitroaniline	mg/L	< 0.005			0.005	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2-Picoline	mg/L	< 0.005			0.005	Pass	
2.3.4.6-Tetrachlorophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2.4-Dinitrotoluene	mg/L	< 0.005			0.005	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.6-Dinitrotoluene	mg/L	< 0.005			0.005	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
3-Methylcholanthrene	mg/L	< 0.005			0.005	Pass	
3.3'-Dichlorobenzidine	mg/L	< 0.005			0.005	Pass	
4-Aminobiphenyl	mg/L	< 0.005			0.005	Pass	
4-Bromophenyl phenyl ether	mg/L	< 0.005			0.005	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
4-Chlorophenyl phenyl ether	mg/L	< 0.005			0.005	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
4.4'-DDD	mg/L	< 0.005			0.005	Pass	
4.4'-DDE	mg/L	< 0.005			0.005	Pass	
4.4'-DDT	mg/L	< 0.005			0.005	Pass	
7.12-Dimethylbenz(a)anthracene	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-BHC	mg/L	< 0.005			0.005	Pass	
Acetophenone	mg/L	< 0.005			0.005	Pass	
Aldrin	mg/L	< 0.005			0.005	Pass	
Aniline	mg/L	< 0.005			0.005	Pass	
b-BHC	mg/L	< 0.005			0.005	Pass	
Benzyl chloride	mg/L	< 0.005			0.005	Pass	
Bis(2-chloroethoxy)methane	mg/L	< 0.005			0.005	Pass	
Bis(2-chloroisopropyl)ether	mg/L	< 0.005			0.005	Pass	
Bis(2-ethylhexyl)phthalate	mg/L	< 0.005			0.005	Pass	
Butyl benzyl phthalate	mg/L	< 0.005			0.005	Pass	
d-BHC	mg/L	< 0.005			0.005	Pass	
Di-n-butyl phthalate	mg/L	< 0.005			0.005	Pass	
Di-n-octyl phthalate	mg/L	< 0.005			0.005	Pass	
Dibenz(a.j)acridine	mg/L	< 0.005			0.005	Pass	
Dibenzofuran	mg/L	< 0.005			0.005	Pass	
Dieldrin	mg/L	< 0.005			0.005	Pass	
Diethyl phthalate	mg/L	< 0.005			0.005	Pass	
Dimethyl phthalate	mg/L	< 0.005			0.005	Pass	
Dimethylaminoazobenzene	mg/L	< 0.005			0.005	Pass	
Diphenylamine	mg/L	< 0.005			0.005	Pass	
Endosulfan I	mg/L	< 0.005			0.005	Pass	
Endosulfan II	mg/L	< 0.005			0.005	Pass	
Endosulfan sulphate	mg/L	< 0.005			0.005	Pass	
Endrin	mg/L	< 0.005			0.005	Pass	
Endrin aldehyde	mg/L	< 0.005			0.005	Pass	
Endrin ketone	mg/L	< 0.005			0.005	Pass	
g-BHC (Lindane)	mg/L	< 0.005			0.005	Pass	
Heptachlor	mg/L	< 0.005			0.005	Pass	
Heptachlor epoxide	mg/L	< 0.005			0.005	Pass	
Hexachlorobenzene	mg/L	< 0.005			0.005	Pass	
Hexachlorobutadiene	mg/L	< 0.005			0.005	Pass	
Hexachlorocyclopentadiene	mg/L	< 0.005			0.005	Pass	
Hexachloroethane	mg/L	< 0.005			0.005	Pass	
Methoxychlor	mg/L	< 0.005			0.005	Pass	
N-Nitrosodibutylamine	mg/L	< 0.005			0.005	Pass	
N-Nitrosodipropylamine	mg/L	< 0.005			0.005	Pass	
N-Nitrosopiperidine	mg/L	< 0.005			0.005	Pass	
Nitrobenzene	mg/L	< 0.05			0.05	Pass	
Pentachlorobenzene	mg/L	< 0.005			0.005	Pass	
Pentachloronitrobenzene	mg/L	< 0.005			0.005	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Pronamide	mg/L	< 0.005			0.005	Pass	
Trifluralin	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	ug/L	0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	124			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	124			70-130	Pass	
LCS - % Recovery							
Total Kjeldahl Nitrogen (as N)	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M20-Se21371	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M20-Se21371	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se13256	NCP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13256	NCP	%	113			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13256	NCP	%	109			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13256	NCP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13256	NCP	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13256	NCP	%	90			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanoic acid (PFDA)	S20-Se13256	NCP	%	90			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13256	NCP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13256	NCP	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13256	NCP	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13256	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se13256	NCP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13256	NCP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13256	NCP	%	79			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13256	NCP	%	99			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13256	NCP	%	75			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13256	NCP	%	87			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13256	NCP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se13256	NCP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13256	NCP	%	98			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13256	NCP	%	134			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13256	NCP	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13256	NCP	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13256	NCP	%	104			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13256	NCP	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13256	NCP	%	90			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13256	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13256	NCP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13256	NCP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13256	NCP	%	97			50-150	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	M20-Se21011	NCP	%	94			70-130	Pass	
Nitrate & Nitrite (as N)	M20-Se21011	NCP	%	94			70-130	Pass	
Nitrate (as N)	M20-Se21011	NCP	%	94			70-130	Pass	
Nitrite (as N)	M20-Se21011	NCP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Kjeldahl Nitrogen (as N)	P20-Se21114	NCP	%	96			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se14787	NCP	%	96			70-130	Pass	
Toluene	S20-Se14787	NCP	%	93			70-130	Pass	
Ethylbenzene	S20-Se14787	NCP	%	92			70-130	Pass	
m&p-Xylenes	S20-Se14787	NCP	%	79			70-130	Pass	
o-Xylene	S20-Se14787	NCP	%	93			70-130	Pass	
Xylenes - Total*	S20-Se14787	NCP	%	84			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	B20-Se19347	NCP	mg/L	0.41	0.39	5.0	30%	Pass	
TRH C15-C28	B20-Se19347	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B20-Se19347	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	B20-Se19347	NCP	mg/L	0.18	0.16	13	30%	Pass	
TRH >C16-C34	B20-Se19347	NCP	mg/L	0.2	0.1	63	30%	Fail	Q15
TRH >C34-C40	B20-Se19347	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se13259	NCP	ug/L	0.02	0.02	11	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13259	NCP	ug/L	0.02	0.02	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13259	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13259	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M20-Se21011	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nitrate & Nitrite (as N)	M20-Se21011	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Nitrate (as N)	M20-Se21011	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Nitrite (as N)	M20-Se21011	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se14799	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Se14799	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Se14799	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Se14799	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Se14799	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-Se14799	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

1/1

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 58238
PROJECT NAME: PLE
DATE NEEDED BY: Standard TAT
LABORATORY BATCH NO.:
SAMPLERS: ML
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..... @jbsg.com.au; (3) ..... @jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
Bottles + Fluid, Ckauffman

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	28 plus (PFOS + PFHxS)	VOCs	TRH / BTEX	PAHs (low level)	Heavy metals	TDS	Fe, pH, Alkalinity	Ammonia	Nitrate/nitrite	Asbestos screened	TRH/VOC	OPPs/PCBs	Acid/phenol	P-24			TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JBSW-01	water	4-9-20	–	Bottles + Vials + Ice		X	X	X	X	X	X	X	X	X	X									
JBSW-02	"					X	X	X	X	X	X	X	X	X	X									
JBSW-03	"					X	X	X	X	X	X	X	X	X	X									
JBSed-01	soil			Jar + PCuS		X			X	X						X	X		X					
JBSed-02	"					X			X	X						X	X		X					
SBSed-03	"					X			X	X						X	X		X					
FB	water					X																		
MW01		5-9-20		Bottles,		X	X	X	X	X	X	X	X	X	X	X								
MW02						X																		
MW03						X																		
MW56						X																		
QA02090905				Fluid, labels, green to purple inside		X																		No PFOS

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 8-9-20	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes ... No ... Intact ... Broken ...
OF: JBS&G	TRANSPORT CO.	DATE: 07/09 6:00 pm	COOLER TEMP ... deg C 9.7°C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes ... No ... Intact ... Broken ...
OF:	TRANSPORT CO	OF:	COOLER TEMP ... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742668

eurofins | Environment Testing

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NATA # 1261 Site # 20794

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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 7, 2020 6:00 PM
Eurofins reference	742668

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 9.7 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742668
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
Newcastle Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	JBSW-01	Sep 04, 2020		Water	S20-Se13255	X	X				X		X	X	X				X	X	X	X
2	JBSW-02	Sep 04, 2020		Water	S20-Se13256	X	X				X		X	X	X				X	X	X	X
3	JBSW-03	Sep 04, 2020		Water	S20-Se13257	X	X				X		X	X	X				X	X	X	X
4	MW01	Sep 04, 2020		Water	S20-Se13258	X	X				X		X	X	X				X	X	X	X
5	MW02	Sep 04, 2020		Water	S20-Se13259	X	X				X		X	X	X				X	X	X	X
6	MW03	Sep 04, 2020		Water	S20-Se13260	X	X				X		X	X	X				X	X	X	X
7	MW06	Sep 04, 2020		Water	S20-Se13261	X	X				X		X	X	X				X	X	X	X
8	QA20200905	Sep 04, 2020		Water	S20-Se13262	X	X				X		X	X	X				X		X	X
9	FB	Sep 04, 2020		Water	S20-Se13263															X		

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742668
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
10	JBSED-01	Sep 04, 2020		Soil	S20-Se13264			X	X	X		X				X	X	X		X		
11	JBSED-02	Sep 04, 2020		Soil	S20-Se13265			X	X	X		X				X	X	X		X		
12	JBSED-03	Sep 04, 2020		Soil	S20-Se13266			X	X	X		X				X	X	X		X		
Test Counts						8	8	3	3	3	8	3	8	8	11	11	3	3	8	11	8	8

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742668-S**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			**JBSED-01**	**JBSED-02**	**JBSED-03**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se13264**	**S20-Se13265**	**S20-Se13266**
Date Sampled			**Sep 04, 2020**	**Sep 04, 2020**	**Sep 04, 2020**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	76	29	< 20
TRH C15-C28	50	mg/kg	130	< 50	< 50
TRH C29-C36	50	mg/kg	170	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	376	< 50	< 50
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED-01	JBSED-02	JBSED-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se13264	S20-Se13265	S20-Se13266
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit			
Volatile Organics					
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	132	140	130
Toluene-d8 (surr.)	1	%	87	90	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	73	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	73	< 50	< 50
TRH >C16-C34	100	mg/kg	260	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	333	< 100	< 100
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED-01	JBSED-02	JBSED-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se13264	S20-Se13265	S20-Se13266
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	105	92	91
p-Terphenyl-d14 (surr.)	1	%	87	95	89
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	93	86	73
Tetrachloro-m-xylene (surr.)	1	%	97	93	94
Polychlorinated Biphenyls					
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED-01	JBSED-02	JBSED-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se13264	S20-Se13265	S20-Se13266
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit			
Polychlorinated Biphenyls					
Dibutylchlorendate (surr.)	1	%	93	86	73
Tetrachloro-m-xylene (surr.)	1	%	97	93	94
Heavy Metals					
Arsenic	2	mg/kg	3.2	< 2	4.4
Cadmium	0.4	mg/kg	0.4	< 0.4	0.4
Chromium	5	mg/kg	88	24	67
Copper	5	mg/kg	95	25	64
Lead	5	mg/kg	32	< 5	92
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	94	18	34
Zinc	5	mg/kg	1000	33	640
% Moisture	1	%	77	33	61
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	50	43	58
13C5-PFPeA (surr.)	1	%	48	46	57
13C5-PFHxA (surr.)	1	%	51	51	61
13C4-PFHpA (surr.)	1	%	54	52	59
13C8-PFOA (surr.)	1	%	66	65	69
13C5-PFNA (surr.)	1	%	61	60	64
13C6-PFDA (surr.)	1	%	67	60	73
13C2-PFUnDA (surr.)	1	%	73	68	76
13C2-PFDoDA (surr.)	1	%	72	68	75
13C2-PFTeDA (surr.)	1	%	71	66	63
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	90	79	86
D3-N-MeFOSA (surr.)	1	%	67	71	60
D5-N-EtFOSA (surr.)	1	%	78	87	72

Client Sample ID			JBSED-01	JBSED-02	JBSED-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se13264	S20-Se13265	S20-Se13266
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonamido substances					
D7-N-MeFOSE (surr.)	1	%	62	62	54
D9-N-EtFOSE (surr.)	1	%	69	68	60
D5-N-EtFOSAA (surr.)	1	%	60	50	62
D3-N-MeFOSAA (surr.)	1	%	63	45	65
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	59	61	61
18O2-PFHxS (surr.)	1	%	104	109	104
13C8-PFOS (surr.)	1	%	96	102	99
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	88	55	94
13C2-6:2 FTSA (surr.)	1	%	128	103	125
13C2-8:2 FTSA (surr.)	1	%	93	89	99
13C2-10:2 FTSA (surr.)	1	%	73	75	76
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 08, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Sep 08, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 08, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 08, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 08, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Sep 08, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 08, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 09, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 09, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742668
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
Newcastle Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	JBSW-01	Sep 04, 2020		Water	S20-Se13255	X	X				X		X	X	X				X	X	X	X
2	JBSW-02	Sep 04, 2020		Water	S20-Se13256	X	X				X		X	X	X				X	X	X	X
3	JBSW-03	Sep 04, 2020		Water	S20-Se13257	X	X				X		X	X	X				X	X	X	X
4	MW01	Sep 04, 2020		Water	S20-Se13258	X	X				X		X	X	X				X	X	X	X
5	MW02	Sep 04, 2020		Water	S20-Se13259	X	X				X		X	X	X				X	X	X	X
6	MW03	Sep 04, 2020		Water	S20-Se13260	X	X				X		X	X	X				X	X	X	X
7	MW06	Sep 04, 2020		Water	S20-Se13261	X	X				X		X	X	X				X	X	X	X
8	QA20200905	Sep 04, 2020		Water	S20-Se13262	X	X				X		X	X	X				X		X	X
9	FB	Sep 04, 2020		Water	S20-Se13263															X		

eurofins | Environment Testing

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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742668
Phone: 02 8245 0300
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Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

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Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
10	JBSED-01	Sep 04, 2020		Soil	S20-Se13264			X	X	X		X				X	X	X		X		
11	JBSED-02	Sep 04, 2020		Soil	S20-Se13265			X	X	X		X				X	X	X		X		
12	JBSED-03	Sep 04, 2020		Soil	S20-Se13266			X	X	X		X				X	X	X		X		
Test Counts						8	8	3	3	3	8	3	8	8	11	11	3	3	8	11	8	8

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	77			70-130	Pass	
TRH C10-C14	%	92			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	109			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.2-Dichlorobenzene	%	93			70-130	Pass	
1.2-Dichloroethane	%	98			70-130	Pass	
Benzene	%	106			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	106			70-130	Pass	
Toluene	%	108			70-130	Pass	
Trichloroethene	%	95			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	117			70-130	Pass	
Acenaphthylene	%	109			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	99			70-130	Pass	
Benzo(a)pyrene	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	%	119			70-130	Pass	
Benzo(g.h.i)perylene	%	88			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	113			70-130	Pass	
Fluorene	%	113			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	104			70-130	Pass	
Naphthalene	%	123			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	103			70-130	Pass	
4.4'-DDD	%	94			70-130	Pass	
4.4'-DDE	%	90			70-130	Pass	
4.4'-DDT	%	93			70-130	Pass	
a-BHC	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aldrin	%	84			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	101			70-130	Pass	
Dieldrin	%	92			70-130	Pass	
Endosulfan I	%	101			70-130	Pass	
Endosulfan II	%	89			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	82			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	81			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	91			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	
Methoxychlor	%	93			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	106			70-130	Pass	
Aroclor-1260	%	116			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	106			80-120	Pass	
Chromium	%	110			80-120	Pass	
Copper	%	110			80-120	Pass	
Lead	%	108			80-120	Pass	
Mercury	%	102			80-120	Pass	
Nickel	%	111			80-120	Pass	
Zinc	%	107			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	121			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	106			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	127			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	119			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	114			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	143			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	98			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	102			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	110			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	116			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	125			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	115			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	118			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	107			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	112			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	96			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	%	110			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	111			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	119			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	109			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	121			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	129			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	115			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se13479	NCP	%	71			70-130	Pass	
TRH C10-C14	S20-Se11771	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S20-Se13488	NCP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S20-Se13488	NCP	%	84			70-130	Pass	
1.2-Dichlorobenzene	S20-Se13488	NCP	%	85			70-130	Pass	
1.2-Dichloroethane	S20-Se13488	NCP	%	87			70-130	Pass	
Benzene	S20-Se13488	NCP	%	94			70-130	Pass	
Ethylbenzene	S20-Se13488	NCP	%	94			70-130	Pass	
m&p-Xylenes	S20-Se13488	NCP	%	96			70-130	Pass	
o-Xylene	S20-Se13488	NCP	%	97			70-130	Pass	
Toluene	S20-Se13488	NCP	%	96			70-130	Pass	
Trichloroethene	S20-Se13488	NCP	%	84			70-130	Pass	
Xylenes - Total*	S20-Se13488	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se13488	NCP	%	79			70-130	Pass	
TRH C6-C10	S20-Se13479	NCP	%	74			70-130	Pass	
TRH >C10-C16	S20-Se11771	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se12458	NCP	%	101			70-130	Pass	
Acenaphthylene	S20-Se12458	NCP	%	100			70-130	Pass	
Anthracene	S20-Se12458	NCP	%	79			70-130	Pass	
Benz(a)anthracene	S20-Se12458	NCP	%	91			70-130	Pass	
Benzo(a)pyrene	S20-Se12458	NCP	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se12458	NCP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se12458	NCP	%	110			70-130	Pass	
Benzo(k)fluoranthene	S20-Se12458	NCP	%	97			70-130	Pass	
Chrysene	S20-Se12458	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se12458	NCP	%	87			70-130	Pass	
Fluoranthene	S20-Se12458	NCP	%	102			70-130	Pass	
Fluorene	S20-Se12458	NCP	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se12458	NCP	%	88			70-130	Pass	
Naphthalene	S20-Se12458	NCP	%	109			70-130	Pass	
Phenanthrene	S20-Se12458	NCP	%	82			70-130	Pass	
Pyrene	S20-Se12458	NCP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	N20-Se02527	NCP	%	110			70-130	Pass	
4.4'-DDD	N20-Se02527	NCP	%	86			70-130	Pass	
4.4'-DDE	N20-Se02527	NCP	%	99			70-130	Pass	
4.4'-DDT	N20-Se02527	NCP	%	95			70-130	Pass	
a-BHC	N20-Se02527	NCP	%	120			70-130	Pass	
Aldrin	N20-Se02527	NCP	%	106			70-130	Pass	
b-BHC	N20-Se02527	NCP	%	109			70-130	Pass	
d-BHC	N20-Se02527	NCP	%	107			70-130	Pass	
Dieldrin	N20-Se02527	NCP	%	99			70-130	Pass	
Endosulfan I	N20-Se02527	NCP	%	120			70-130	Pass	
Endosulfan II	N20-Se02527	NCP	%	89			70-130	Pass	
Endosulfan sulphate	N20-Se02527	NCP	%	102			70-130	Pass	
Endrin	N20-Se02527	NCP	%	86			70-130	Pass	
Endrin ketone	N20-Se02527	NCP	%	85			70-130	Pass	
g-BHC (Lindane)	N20-Se02527	NCP	%	113			70-130	Pass	
Heptachlor	N20-Se02527	NCP	%	96			70-130	Pass	
Heptachlor epoxide	N20-Se02527	NCP	%	96			70-130	Pass	
Hexachlorobenzene	N20-Se02527	NCP	%	126			70-130	Pass	
Methoxychlor	N20-Se02527	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	N20-Se02527	NCP	%	120			70-130	Pass	
Aroclor-1260	N20-Se02527	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se13328	NCP	%	120			75-125	Pass	
Cadmium	S20-Se13328	NCP	%	120			75-125	Pass	
Chromium	S20-Se13328	NCP	%	117			75-125	Pass	
Copper	S20-Se13328	NCP	%	115			75-125	Pass	
Lead	S20-Se13328	NCP	%	118			75-125	Pass	
Mercury	S20-Se13328	NCP	%	119			75-125	Pass	
Nickel	S20-Se13328	NCP	%	117			75-125	Pass	
Zinc	S20-Se13328	NCP	%	118			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se13213	NCP	%	114			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13213	NCP	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13213	NCP	%	117			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13213	NCP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13213	NCP	%	106			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13213	NCP	%	133			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13213	NCP	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13213	NCP	%	105			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13213	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13213	NCP	%	115			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13213	NCP	%	115			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se13213	NCP	%	116			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13213	NCP	%	106			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13213	NCP	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13213	NCP	%	115			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13213	NCP	%	103			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13213	NCP	%	108			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13213	NCP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se13213	NCP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13213	NCP	%	106			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13213	NCP	%	109			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13213	NCP	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13213	NCP	%	107			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13213	NCP	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13213	NCP	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13213	NCP	%	116			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13213	NCP	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13213	NCP	%	112			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13213	NCP	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13213	NCP	%	107			50-150	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S20-Se19127	NCP	%	70			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se13264	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Se11764	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se11764	NCP	mg/kg	85	< 50	62	30%	Fail	Q15
TRH C29-C36	S20-Se11764	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1.2-Trichloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	S20-Se13264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S20-Se13264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	S20-Se13264	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S20-Se13264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S20-Se13264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	S20-Se13264	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se13264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se13264	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Se11764	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se11764	NCP	mg/kg	110	< 100	55	30%	Fail	Q15
TRH >C34-C40	S20-Se11764	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se11764	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se11764	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se11764	NCP	mg/kg	0.7	< 0.5	90	30%	Fail	Q15
Benz(a)anthracene	S20-Se11764	NCP	mg/kg	1.5	0.9	48	30%	Fail	Q15
Benzo(a)pyrene	S20-Se11764	NCP	mg/kg	1.8	1.1	48	30%	Fail	Q15
Benzo(b&j)fluoranthene	S20-Se11764	NCP	mg/kg	1.3	0.6	69	30%	Fail	Q15
Benzo(g.h.i)perylene	S20-Se11764	NCP	mg/kg	0.9	< 0.5	68	30%	Fail	Q15
Benzo(k)fluoranthene	S20-Se11764	NCP	mg/kg	1.9	1.0	60	30%	Fail	Q15
Chrysene	S20-Se11764	NCP	mg/kg	1.7	1.1	45	30%	Fail	Q15
Dibenz(a.h)anthracene	S20-Se11764	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se11764	NCP	mg/kg	5.7	2.8	69	30%	Fail	Q15
Fluorene	S20-Se11764	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se11764	NCP	mg/kg	0.7	< 0.5	54	30%	Fail	Q15
Naphthalene	S20-Se11764	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se11764	NCP	mg/kg	3.0	1.0	99	30%	Fail	Q15
Pyrene	S20-Se11764	NCP	mg/kg	5.0	2.5	66	30%	Fail	Q15
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se11764	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se11764	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se11764	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S20-Se11764	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se10404	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1260	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se10404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se12748	NCP	mg/kg	3.4	2.9	14	30%	Pass	
Cadmium	S20-Se12748	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se12748	NCP	mg/kg	7.0	7.1	1.0	30%	Pass	
Copper	S20-Se12748	NCP	mg/kg	24	21	14	30%	Pass	
Lead	S20-Se12748	NCP	mg/kg	72	75	3.0	30%	Pass	
Mercury	S20-Se12748	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se12748	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S20-Se12748	NCP	mg/kg	110	93	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se13248	NCP	%	27	25	8.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se11764	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se11764	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se11764	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se11764	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742668-W**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			**JBSW-01**	**JBSW-02**	**JBSW-03**	**MW01**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se13255**	**S20-Se13256**	**S20-Se13257**	**S20-Se13258**
Date Sampled			**Sep 04, 2020**	**Sep 04, 2020**	**Sep 04, 2020**	**Sep 04, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	89	84	93	89
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	0.005	< 0.003	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			JBSW-01	JBSW-02	JBSW-03	MW01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13255	S20-Se13256	S20-Se13257	S20-Se13258
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	89	84	93	89
Toluene-d8 (surr.)	1	%	93	86	91	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1

Client Sample ID			JBSW-01	JBSW-02	JBSW-03	MW01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13255	S20-Se13256	S20-Se13257	S20-Se13258
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	60	54	62	53
p-Terphenyl-d14 (surr.)	1	%	112	55	60	68
Ammonia (as N)	0.01	mg/L	0.08	0.19	< 0.01	0.22
Conductivity (at 25°C)	10	uS/cm	370	1800	620	6200
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	0.22	< 0.05	< 0.05
Nitrate (as N)	0.02	mg/L	< 0.02	0.13	< 0.02	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	0.09	< 0.02	0.03
Organic Nitrogen (as N)*	0.2	mg/L	0.82	0.51	0.9	< 0.2
pH (at 25 °C)	0.1	pH Units	7.4	8.5	8.0	7.8
Total Dissolved Solids Dried at 180°C ± 2°C	10	mg/L	190	970	360	3800
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.9	0.7	0.9	0.3
Total Nitrogen (as N)*	0.2	mg/L	0.9	0.92	0.9	0.3
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	99	380	380	670
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	19	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	99	400	380	670
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001	0.006	< 0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.003	0.001	0.003	0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.002	0.003	0.001	0.006
Zinc (filtered)	0.005	mg/L	0.008	< 0.005	< 0.005	0.010
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.03	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.03	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			JBSW-01	JBSW-02	JBSW-03	MW01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13255	S20-Se13256	S20-Se13257	S20-Se13258
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	93	82	81	126
13C5-PFPeA (surr.)	1	%	72	72	71	104
13C5-PFHxA (surr.)	1	%	97	86	84	133
13C4-PFHpA (surr.)	1	%	77	81	77	94
13C8-PFOA (surr.)	1	%	103	106	99	117
13C5-PFNA (surr.)	1	%	82	92	80	98
13C6-PFDA (surr.)	1	%	102	106	94	112
13C2-PFUnDA (surr.)	1	%	97	102	94	106
13C2-PFDoDA (surr.)	1	%	113	114	109	105
13C2-PFTeDA (surr.)	1	%	75	75	89	65
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	122	127	106	125
D3-N-MeFOSA (surr.)	1	%	80	90	76	54
D5-N-EtFOSA (surr.)	1	%	85	94	84	56
D7-N-MeFOSE (surr.)	1	%	130	124	107	105
D9-N-EtFOSE (surr.)	1	%	141	137	127	112
D5-N-EtFOSAA (surr.)	1	%	121	151	122	181
D3-N-MeFOSAA (surr.)	1	%	56	64	57	86
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	[N09]< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	99	97	97	112
18O2-PFHxS (surr.)	1	%	110	114	112	129
13C8-PFOS (surr.)	1	%	114	114	111	124

Client Sample ID			JBSW-01	JBSW-02	JBSW-03	MW01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13255	S20-Se13256	S20-Se13257	S20-Se13258
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	101	90	86	115
13C2-6:2 FTSA (surr.)	1	%	154	159	170	183
13C2-8:2 FTSA (surr.)	1	%	166	178	176	182
13C2-10:2 FTSA (surr.)	1	%	104	106	102	121
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	0.06	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			MW02	MW03	MW06	QA20200905
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13259	S20-Se13260	S20-Se13261	S20-Se13262
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	89	80	85	85
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW02	MW03	MW06	QA20200905
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13259	S20-Se13260	S20-Se13261	S20-Se13262
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	0.011	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	89	80	85	85
Toluene-d8 (surr.)	1	%	90	92	90	91

Client Sample ID			MW02	MW03	MW06	QA20200905
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13259	S20-Se13260	S20-Se13261	S20-Se13262
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	54	68	67	87
p-Terphenyl-d14 (surr.)	1	%	73	78	75	91
Ammonia (as N)	0.01	mg/L	< 0.01	0.01	0.04	0.26
Conductivity (at 25°C)	10	uS/cm	1300	620	14000	6100
Nitrate & Nitrite (as N)	0.05	mg/L	3.6	0.38	< 0.05	0.12
Nitrate (as N)	0.02	mg/L	3.5	0.17	< 0.02	0.08
Nitrite (as N)	0.02	mg/L	0.07	0.21	< 0.02	0.04
Organic Nitrogen (as N)*	0.2	mg/L	0.4	0.69	< 0.2	0.34
pH (at 25 °C)	0.1	pH Units	7.9	7.8	7.6	8.0
Total Dissolved Solids Dried at 180°C ± 2°C	10	mg/L	720	350	9700	3400
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.4	0.7	< 0.2	0.6
Total Nitrogen (as N)*	0.2	mg/L	4	1.08	< 0.2	0.72
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	470	300	1200	710
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	470	300	1200	710
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Copper (filtered)	0.001	mg/L	0.002	0.002	< 0.001	< 0.001

Client Sample ID			MW02	MW03	MW06	QA20200905
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13259	S20-Se13260	S20-Se13261	S20-Se13262
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.003	0.002	0.007	0.006
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	0.011	0.008
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C4-PFBA (surr.)	1	%	102	107	120	-
13C5-PFPeA (surr.)	1	%	88	97	107	-
13C5-PFHxA (surr.)	1	%	101	109	127	-
13C4-PFHpA (surr.)	1	%	93	99	105	-
13C8-PFOA (surr.)	1	%	116	116	110	-
13C5-PFNA (surr.)	1	%	97	96	104	-
13C6-PFDA (surr.)	1	%	108	111	123	-
13C2-PFUnDA (surr.)	1	%	105	111	123	-
13C2-PFDoDA (surr.)	1	%	127	127	127	-
13C2-PFTeDA (surr.)	1	%	95	88	93	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
13C8-FOSA (surr.)	1	%	128	118	127	-
D3-N-MeFOSA (surr.)	1	%	90	88	38	-
D5-N-EtFOSA (surr.)	1	%	92	91	40	-
D7-N-MeFOSE (surr.)	1	%	130	122	108	-
D9-N-EtFOSE (surr.)	1	%	135	140	124	-
D5-N-EtFOSAA (surr.)	1	%	106	163	153	-
D3-N-MeFOSAA (surr.)	1	%	49	72	77	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-

Client Sample ID			MW02	MW03	MW06	QA20200905
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se13259	S20-Se13260	S20-Se13261	S20-Se13262
Date Sampled			Sep 04, 2020	Sep 04, 2020	Sep 04, 2020	Sep 04, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C3-PFBS (surr.)	1	%	100	108	122	-
18O2-PFHxS (surr.)	1	%	117	123	124	-
13C8-PFOS (surr.)	1	%	122	129	151	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C2-4:2 FTSA (surr.)	1	%	113	116	121	-
13C2-6:2 FTSA (surr.)	1	%	144	150	177	-
13C2-8:2 FTSA (surr.)	1	%	146	143	171	-
13C2-10:2 FTSA (surr.)	1	%	100	104	120	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.02	< 0.01	< 0.01	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.02	< 0.01	< 0.01	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	-

Client Sample ID			FB
Sample Matrix			Water
Eurofins Sample No.			S20-Se13263
Date Sampled			Sep 04, 2020
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	100
13C5-PFPeA (surr.)	1	%	98
13C5-PFHxA (surr.)	1	%	108
13C4-PFHpA (surr.)	1	%	98
13C8-PFOA (surr.)	1	%	115

Client Sample ID			FB
Sample Matrix			Water
Eurofins Sample No.			S20-Se13263
Date Sampled			Sep 04, 2020
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
13C5-PFNA (surr.)	1	%	95
13C6-PFDA (surr.)	1	%	107
13C2-PFUnDA (surr.)	1	%	108
13C2-PFDoDA (surr.)	1	%	125
13C2-PFTeDA (surr.)	1	%	95
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	104
D3-N-MeFOSA (surr.)	1	%	88
D5-N-EtFOSA (surr.)	1	%	87
D7-N-MeFOSE (surr.)	1	%	127
D9-N-EtFOSE (surr.)	1	%	135
D5-N-EtFOSAA (surr.)	1	%	85
D3-N-MeFOSAA (surr.)	1	%	36
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01
13C3-PFBS (surr.)	1	%	110
18O2-PFHxS (surr.)	1	%	119
13C8-PFOS (surr.)	1	%	126
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01
13C2-4:2 FTSA (surr.)	1	%	108
13C2-6:2 FTSA (surr.)	1	%	112
13C2-8:2 FTSA (surr.)	1	%	126
13C2-10:2 FTSA (surr.)	1	%	86

Client Sample ID			FB
Sample Matrix			**Water**
Eurofins Sample No.			**S20-Se13263**
Date Sampled			**Sep 04, 2020**
Test/Reference	LOR	Unit	
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 09, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Conductivity (at 25°C)	Melbourne	Sep 09, 2020	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Melbourne	Sep 09, 2020	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Alkalinity (speciated)	Melbourne	Sep 09, 2020	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Metals M8 filtered	Sydney	Sep 08, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Nitrogens (speciated)			
Ammonia (as N)	Melbourne	Sep 09, 2020	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate & Nitrite (as N)	Melbourne	Sep 09, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrate (as N)	Melbourne	Sep 09, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Sep 09, 2020	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Sep 08, 2020	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-INO-4310 TKN in Waters & Soils by FIA			
Total Dissolved Solids Dried at 180°C ± 2°C	Melbourne	Sep 09, 2020	7 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 11, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742668
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
Newcastle Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	JBSW-01	Sep 04, 2020		Water	S20-Se13255	X	X				X		X	X	X				X	X	X	X
2	JBSW-02	Sep 04, 2020		Water	S20-Se13256	X	X				X		X	X	X				X	X	X	X
3	JBSW-03	Sep 04, 2020		Water	S20-Se13257	X	X				X		X	X	X				X	X	X	X
4	MW01	Sep 04, 2020		Water	S20-Se13258	X	X				X		X	X	X				X	X	X	X
5	MW02	Sep 04, 2020		Water	S20-Se13259	X	X				X		X	X	X				X	X	X	X
6	MW03	Sep 04, 2020		Water	S20-Se13260	X	X				X		X	X	X				X	X	X	X
7	MW06	Sep 04, 2020		Water	S20-Se13261	X	X				X		X	X	X				X	X	X	X
8	QA20200905	Sep 04, 2020		Water	S20-Se13262	X	X				X		X	X	X				X		X	X
9	FB	Sep 04, 2020		Water	S20-Se13263															X		

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NSW 2000

Project Name: PLE
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Order No.:
Report #: 742668
Phone: 02 8245 0300
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Received: Sep 7, 2020 6:00 PM
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Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	pH (at 25 °C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speciated)	Metals M8	Metals M8 filtered	Nitrogens (speciated)	Volatile Organics	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	Total Dissolved Solids Dried at 180°C ± 2°C
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X				X			X	X		X	X	X		X	X
Sydney Laboratory - NATA Site # 18217								X	X	X		X	X	X		X	X	X	X			X
Brisbane Laboratory - NATA Site # 20794																				X		
Perth Laboratory - NATA Site # 23736																						
10	JBSED-01	Sep 04, 2020		Soil	S20-Se13264			X	X	X		X				X	X	X		X		
11	JBSED-02	Sep 04, 2020		Soil	S20-Se13265			X	X	X		X				X	X	X		X		
12	JBSED-03	Sep 04, 2020		Soil	S20-Se13266			X	X	X		X				X	X	X		X		
Test Counts						8	8	3	3	3	8	3	8	8	11	11	3	3	8	11	8	8

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Total Dissolved Solids Dried at 180°C ± 2°C	mg/L	< 10			10	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Total Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	120			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	82			70-130	Pass	
Xylenes - Total*	%	82			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	113			70-130	Pass	
1.1.1-Trichloroethane	%	94			70-130	Pass	
1.2-Dichlorobenzene	%	89			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichloroethane	%	96			70-130	Pass	
Trichloroethene	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	82			70-130	Pass	
TRH C6-C10	%	116			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	109			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	%	115			70-130	Pass	
Benzo(g.h.i)perylene	%	109			70-130	Pass	
Benzo(k)fluoranthene	%	128			70-130	Pass	
Chrysene	%	126			70-130	Pass	
Dibenz(a.h)anthracene	%	115			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	103			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	95			70-130	Pass	
Conductivity (at 25°C)	%	86			70-130	Pass	
Nitrate & Nitrite (as N)	%	99			70-130	Pass	
Nitrate (as N)	%	99			70-130	Pass	
Nitrite (as N)	%	97			70-130	Pass	
Total Dissolved Solids Dried at 180°C ± 2°C	%	93			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	%	108			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	75			70-130	Pass	
Total Alkalinity (as CaCO3)	%	82			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	96			80-120	Pass	
Cadmium (filtered)	%	99			80-120	Pass	
Chromium (filtered)	%	97			80-120	Pass	
Copper (filtered)	%	98			80-120	Pass	
Lead (filtered)	%	101			80-120	Pass	
Mercury (filtered)	%	102			80-120	Pass	
Nickel (filtered)	%	97			80-120	Pass	
Zinc (filtered)	%	96			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	81			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	92			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	97			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	86			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanoic acid (PFDA)	%	78			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	86			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	85			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	66			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	98			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	92			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	88			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	78			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	82			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	91			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	83			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	98			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	103			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	93			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	96			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Total Kjeldahl Nitrogen (as N)	M20-Se11688	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Alkalinity (speciated)				Result 1					
Bicarbonate Alkalinity (as CaCO3)	S20-Se13162	NCP	%	92			70-130	Pass	
Total Alkalinity (as CaCO3)	S20-Se13162	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S20-Se15527	NCP	%	98			75-125	Pass	
Cadmium (filtered)	S20-Se15527	NCP	%	94			75-125	Pass	
Chromium (filtered)	S20-Se15527	NCP	%	90			75-125	Pass	
Copper (filtered)	S20-Se15527	NCP	%	88			75-125	Pass	
Lead (filtered)	S20-Se15527	NCP	%	92			75-125	Pass	
Mercury (filtered)	S20-Se15527	NCP	%	98			75-125	Pass	
Nickel (filtered)	S20-Se15527	NCP	%	82			75-125	Pass	
Zinc (filtered)	S20-Se15527	NCP	%	85			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se13256	CP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13256	CP	%	113			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13256	CP	%	109			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanoic acid (PFHpA)	S20-Se13256	CP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13256	CP	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13256	CP	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13256	CP	%	90			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13256	CP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13256	CP	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13256	CP	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13256	CP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se13256	CP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13256	CP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13256	CP	%	79			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13256	CP	%	99			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13256	CP	%	75			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13256	CP	%	87			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13256	CP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se13256	CP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13256	CP	%	98			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13256	CP	%	134			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13256	CP	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13256	CP	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13256	CP	%	104			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13256	CP	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13256	CP	%	90			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13256	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13256	CP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13256	CP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13256	CP	%	97			50-150	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	S20-Se13260	CP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nitrate & Nitrite (as N)	S20-Se13260	CP	%	99			70-130	Pass	
Nitrate (as N)	S20-Se13260	CP	%	99			70-130	Pass	
Nitrite (as N)	S20-Se13260	CP	%	108			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Se13255	CP	uS/cm	370	350	6.0	30%	Pass	
pH (at 25 °C)	S20-Se13255	CP	pH Units	7.4	7.4	pass	30%	Pass	
Total Dissolved Solids Dried at 180°C ± 2°C	P20-Se14926	NCP	mg/L	39000	38000	4.0	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S20-Se13255	CP	mg/L	99	94	5.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S20-Se13255	CP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S20-Se13255	CP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S20-Se13255	CP	mg/L	99	94	5.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13255	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13255	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se13259	CP	ug/L	0.02	0.02	11	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se13259	CP	ug/L	0.02	0.02	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se13259	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se13259	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	S20-Se13260	CP	mg/L	0.01	0.02	32	30%	Fail	Q15
Nitrate & Nitrite (as N)	S20-Se13260	CP	mg/L	0.38	0.38	1.0	30%	Pass	
Nitrate (as N)	S20-Se13260	CP	mg/L	0.17	0.17	1.0	30%	Pass	
Nitrite (as N)	S20-Se13260	CP	mg/L	0.21	0.21	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Se13261	CP	uS/cm	14000	14000	3.0	30%	Pass	
pH (at 25 °C)	S20-Se13261	CP	pH Units	7.6	7.7	pass	30%	Pass	
Total Kjeldahl Nitrogen (as N)	S20-Se13261	CP	mg/L	< 0.2	0.4	200	30%	Fail	Q15
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S20-Se13261	CP	mg/L	1200	1100	7.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S20-Se13261	CP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S20-Se13261	CP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S20-Se13261	CP	mg/L	1200	1100	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Se13262	CP	uS/cm	6100	6000	3.0	30%	Pass	
pH (at 25 °C)	S20-Se13262	CP	pH Units	8.0	8.0	pass	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S20-Se13262	CP	mg/L	710	630	13	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S20-Se13262	CP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S20-Se13262	CP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S20-Se13262	CP	mg/L	710	630	13	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Se13262	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S20-Se13262	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Se13262	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S20-Se13262	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S20-Se13262	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S20-Se13262	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S20-Se13262	CP	mg/L	0.006	0.005	14	30%	Pass	
Zinc (filtered)	S20-Se13262	CP	mg/L	0.008	0.006	19	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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017068

CHAIN OF CUSTODY

Pg 1 / 15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC/OM	28 PFAs	Hold B7	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB01_0-0.1	Soil	5/9/20		Jar + Bag															Other metals =
_0.4-0.5						x		x	x	x								x	aluminium, manganese, iron & cyanide (free)
_1.5-1.6																			
JB02_0-0.1				J + B															
_0.5-0.6						x		x	x	x	x							G	
_1.5-1.6																			
_2.6-2.7				Jar															
JB03_0-0.1				Jar + Bag															
_0.3-0.4						x		x	x	x	x							x	
_1.0-1.1																			
_1.3-1.4																			
_2.4-2.5						x		x	x	x	x							x	
_3.0-3.1																			
JB06_0-0.1				J + B															
_0.5-0.6																			
_1.1-1.2																			
_2.0-2.1				+ PFAs		x		x	x	x					x			x	
_2.8-2.9																			
JB07_0-0.1				J + B		x		x		x								x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M Birkett	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6:00pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 | 742692

017069

CHAIN OF CUSTODY

Pg 2/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....Ckaufman.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAS	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB07_0.5-0.6	Soil	5/9/20		J+B														
_1.5-1.6	↓	↓		↓														
_2.7-2.8				J														
JB08_0-0.1				J+B														
_0.5-0.6				↓														
_1.5-1.6																		
_2.3-2.3				J		X	X											
JB09_0-0.1				J+B														
_0.5-0.6				↓														
_1.1-1.2																		
_1.6-1.7																		
JB13_0-0.1				J+B														
_0.5-0.6				↓		X	X	X	X								X	
JB14_0-0.1				J+B														
_0.5-0.6				↓ +PFAS		X	X	X	X	X				X				
_1.0-1.1																		
_1.5-1.6																		
_1.6-1.7				J														
JB14A_0-0.1	↓	↓		J+B														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

742676/742692

017070

CHAIN OF CUSTODY

Pg 3/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PEE	SAMPLERS: CK + JW
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500g	OCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB14A_0.5-0.6	soil	5/9/20		J+B		x		x	x	x	x							x	
-1.0-1.1	↓	↓		↓						x								x	
-1.5-1.6																			
-1.8-1.9				J															
JB14B_0-0.1				J+B		x		x	x	x								x	
-0.5-0.6				↓															
-1.5-1.6						x		x		x				x				x	
-1.7-1.8				J															
JB14C_0-0.1				J+B															
-0.5-0.6				↓															
-1.0-1.1																			
-1.5-1.6				J															
JB14D_0-0.1				J+B		x		x		x									x
-0.5-0.6				↓															
-1.0-1.1																			
-1.3-1.4				J															
JB20_0.-0.1				J+B		x		x	x	x	x								x
-0.2-0.3				J		x		x	x	x	x								
JB21_0-0.1	↓	↓		J+B		x				x									x

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ~~No~~ ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 | 742692

017071

CHAIN OF CUSTODY

Pg 4/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos ID/QA	OCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAS	Hold	Asbestos ID	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB21_0.2-0.3	Soil	5/9/20		J																
JB22a_0-0.1	Soil			J+B		x	x	x	x	x	x	x							x	
JB22a Frag	Fragment/Material			B														x		Asb ID.
JB22B_0-0.1	Soil			J+B		x		x		x									b	
↓ _0.3-0.4		↓		↓																
JB27_0-0.1		4/9/20		J+B+PFAs		x	x	x	x	x	x	x		x						
_0.5-0.6				J+B		x	x	x												
↓ _1.0-1.1		↓		↓																
JB28_0.2-0.3		5/9/20		J+B+PFAs		x		x	x		x	x	x		x					
_0.5-0.6				J		x		x	x			x								
_0.7-0.8																				
_1.5-1.6						x		x	x		x	x	x							
↓ _2.1-2.2		↓		↓																
JB29_0.1-0.2		5/9/20		J+B+PFAs		x		x	x											
_0.5-0.6				J+B																
↓ _1.6-1.7		↓		↓																
JB30_0.05-0.1		4/9/20		J+B+PFAs		x		x												
_0.5-0.6				J+B																
↓ _1.5-1.6		↓		↓																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-08-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017072

CHAIN OF CUSTODY

Pg 5/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB30_2.1-2.2	Soil	4/9/20		J+B															
JB30_3.0-3.1						x		x	x	x								y	
JB30_3.7-3.8				J															
JB31_0.05-0.1				J+B+PFAs		x	x	x	y	y	x	x	x		x				
JB31_0.4-0.5				J+B															
JB31_0.9-1.0						x		x	y										
JB31_2.0-2.1																			
JB31_2.4-2.5				J															
JB31_2.8-2.9																			
JB35_0-0.1		4/9/20		J+B+PFAs															
JB35_0.5-0.6				J+B															
JB35_1.0-1.1																			
JB35_2.1-2.2						x	x	x	x			x							
JB35_2.4-2.5																			
JB35_3.1-3.2																			
JB35_4.0-4.1						x		x	x	x								y	
JB35_5.0-5.1				J															
JB36_0.05-0.1		4/9/20		J+B+PFAs		x	x	x	x										
JB36_1.0-1.1				J+B															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M- Barnett	COOLER SEAL – Yes✓ No ..... Intact✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017073

CHAIN OF CUSTODY

Pg 6/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Stadard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB36_0.0-0.1	Soil	4/9/20		J+B															
_0.3-0.3				J															
JB37_0.05-0.1				J+B+PFAs		x		b	x		.								
_0.6-0.7				J+B															
_1.5-1.6				J															
_2.6-2.7																			
_4.0-4.1						x		x	x										
_4.1-4.2																			
JB38_0.1-0.2				J+B+PFAs		x		x	x		x	x							
_1.0-1.1				J+B															
_1.8-1.9				J		x		x	x										
_2.0-2.1																			
_3.0-3.1																			
JB39_0.2-0.3				J+PFAs		x	x	x	x	x	x	x	x		4				No PFAS
_0.9-1.0				J															
JB41_0.1-0.2		5/9/20		J+PFAs		x	x	x	x	x	x	x			x				
_1.0-1.1				J															
JB42_0.05-0.1				J+PFAs		x		x	x		x	x	4						
_1.0-1.1				J															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ✓ No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	COOLER TEMP 9.3 ✓ deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017074

CHAIN OF CUSTODY

Pg 7/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	other metals	PAHs	TPH/BTEX	Asbestos soil	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB43_0-0.1	Soil	3/9/20		J+B		x		x											
↓ _0.5-0.6	↓	↓		J															
JB43A_0-0.1				J+B		x		x	x	x								x	
↓ _0.4-0.5				J															
↓ _1.0-1.1				J															
JB44_0-0.1				J+B		x		x		b								x	
↓ _0.3-0.4				↓															
↓ _1.0-1.1				J															
JB45_0.05-0.1				J+B+PFAs		x		b											
↓ _0.5-0.6				J															
JB49_0.05-0.1				J+B+PFAs		b		b		b								b	
↓ _0.5-0.6				↓															
↓ _2.0-2.1				J															
↓ _2.5-2.6		↓		↓															
JB50_0.1-0.2		4/9/20		J+B+PFAs		x		x	y			x							
↓ _0.3-0.4		↓		J															
↓ _0.5-0.6				J+B															
↓ _2.4-2.5				J+B															
↓ _3.0-3.1	↓	↓		J															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M Birkett	COOLER SEAL – Yes..✓.. No ..... Intact ..✓.. Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07/09/20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017075

CHAIN OF CUSTODY

Pg 8/15

JBS&G

PROJECT NO.: 58238
PROJECT NAME: PLE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: JN + CK
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	OTHER METALS	PAHs	TPH/BTEX	ASBESTOS 500mL	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	HOLD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB50_3.3-3.4	Soil	4/9/20		J+B		X		X		X	X								
↓ _4.8-4.9		↓		J															
JB63_0.1-0.2				J+PFAs		X	X	X	X		X	X	X		X				
_0.5-0.6				↓															
_1.5-1.6				J															
_2.1-2.2				↓					X			X	X						
_2.6-2.7																			
JB65_0.05-0.1				J+B+PFAs		X		X	X	X									
_0.2-0.3				J+B															
_1.0-1.1				↓															
_1.2-1.3				J															
_2.1-2.2				↓															
JB67_0-0.1		5/9/20		J+B															
_0.5-0.6																			
_1.0-1.1																			
_1.5-1.6																			
_2.0-2.1																			
_3.0-3.1		↓				X		X		X	X			X					
JB68_0.05-0.1		4/9/20		J+B+PFAs															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07/09/20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676 / 742692

017076

CHAIN OF CUSTODY

Pg 9/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: CK + JN
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos Soil	OCPs/PCBs	VOCs	SVOCs	CEC	PB PFAs	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB68_0.5-0.6	Soil	4/9/20		J+B		x		x	x	x	x								
_1.3-1.4				J															
_2.3-2.4																			
JB69_0.05-0.1				J+B+PFAs															
_0.4-0.5				J+B															
_0.7-0.8																			
_3.3-3.4				J															
_3.8-3.9																			
JB70_0-0.1		5/9/20		J+B		x		x		x									
_0.5-0.6																			
_1.0-1.1																			
_2.1-2.2																			
JB80_0-0.1				J+B+PFAs		x		x		x									
_0.5-0.6				J+B															
_1.0-1.1																			
JB93_0.4-0.5		5/9/20		J+B+PFAs		x		x	x		x	x	x						
_1.0-1.1				J		x			x			x							
_2.0-2.1																			
_2.5-2.6																			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

017077

CHAIN OF CUSTODY

Pg 10/15

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS:
DATE NEEDED BY: Standard	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.Kauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	BTEXN	HM	Other Metals	PAHs	TRH/BTEX	Asbestos Screen	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAs	Ammonia	Nitrate/nitrite	nitrogen speciation	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB101_0.15-0.2	soil	5/9/20		J+B+PFAs			X		X													
_1.0-1.1				J+B																		* PAH (low level) for RIN03
_1.5-1.6				J																		
_2.3-2.4				J+B																		
JB103_0-0.1				J+B																		
_0.4-0.5				J		X	X		X	X			X									
JB104_0.2-0.3				J+PFAs																		
_1.0-1.1				J																		
JB105_0.05-0.1				J+B+PFAs																		
_0.5-0.6				J																		
QA20200904-1		4/9/20		J		X	X	X	X	X		X	X									
-2				J																		
QA20200905-1		5/9/20		J+B			X	X	X	X	X	X	X			X						
-2				PFAs												X						
QA20200905-CK1				J+B			X		X	X	X	X									X	
-CK2				J+B			X		V	X	X	Y									X	
rin02	water	5/9/20		2xvials, amber, metals, PFAs			X	X	X	X		X	X	X		X						
rin03				PFAs, 2xvials, amber, green, purple, red plastic			X		X	X		X	X				X	X	X			
TS/TB		3/9/20		4x vials		X																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07-09-20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY

11/15 24304

JBS&G

PROJECT NO.: SS238
PROJECT NAME: PLE
DATE NEEDED BY: standard

LABORATORY BATCH NO.:
SAMPLERS: LSC
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..Cmaulbman..@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos soil/	CCPs/PCBs	VOCs	SVOCs	CEC/pH	28 PFAS	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB100 0.0-0.1	Soil	4/9/20		Jar+Bag+Pfas		X		X		X									Other metals = aluminium, manganese iron, cyanide (free)
0.4-0.5				J+B		X		X		X									
1.2-1.3				J+B		X		X		X									
JB99 0.1-0.2				J+B+Pfas															
0.4-0.5				J+B+Pfas Pfas															
JB98 0.0-0.1				J+B+Pfas		X		X		X	X			X				X	
0.4-0.5				J+B															
0.9-1.0				B+J															
1.9-2.0				J+B		X		X		X								Y	
JB97 0.1-0.2				J+B+P															
0.4-0.5				J+B															
0.9-1.0				J+B															
1.9-2.0				J+B															
JB96 0.0-0.1				J B Pfas.		X		·		X								Y	
0.4-0.5				J B															
0.9-1.0				J B															
1.9-2.0				J B															
										X								O	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 07-09-20 6pm	COOLER TEMP 9.3 ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY 12/15

24305

JBS&G

PROJECT NO.: S8238
PROJECT NAME: PLE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: Robert Sh
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Ckauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	Other metals	PAHs	TRH/BTEX	Asbestos 500ml	OCPs/PCBs	VOCs	SVOCs	CEC	28 PFAS Helg	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB95 0.1-0.2	soil	4/9/20		JB+P														
0.9-1.0				J+B						X								
1.6-1.7				J+B														
1.9-2.0				J+B														
JB94 0.1-0.2				J+B+Pfas.														
0.9-1.0				J+B						X								
1.9-2.0				J+B														
2.9-2.5				J+B						X								
JB89 0.1-0.2				J+B														
0.4-0.5				J+B+P						X								
1.7-1.9				Jar														
2.3-2.4				J+B+														
JB92 0.1-0.2				B+J		X		X	X	X		X						
0.5-0.6				J+B														
0.9-1.0				J+B+Pfas.														
JB92A 0.0-0.1				Bag														
JB89A 0.2-0.3				J+B						X								
JB90 0.2-0.3				J+B														
0.5-0.6				J+Pfas.														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	9.37 COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

CHAIN OF CUSTODY 13/8/15 24306

JBS&G

PROJECT NO.: 58238
PROJECT NAME: PCE
DATE NEEDED BY: Standard

LABORATORY BATCH NO.:
SAMPLERS: RS
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	OT	arsenic	VOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SB98 - A	Material	4/9/20		Bag		x				x		
JB96 - A	↓	↓		↓		x				x		
JB94 - A						x				x		
JB14 0.2-0.3				JAR								
0.6-0.7				+ Pfos								
1.2-1.3												
JB91 0-0.1												
0.4-0.5				+ Pfos.								
1.8-1.9												
JB60 0.2-0.4						x	x	x	x		x	
0.6-0.8												
1.1-1.2												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6.9.20	CONSIGNMENT NOTE NO.	NAME: M. Birkett	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 07-09-20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

742676/742692

14/15

PROJECT NO.: 58238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: Matthew
DATE NEEDED BY: Std	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaufus@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Bottles = 1lp H.M. 1vial, 1x amb, 1x green, 1x purple 1lp PFAS.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H.M	PAH (LL)	VOC	TRH/BTEX	Ec, pH, alkalinity	TDS	Nitrate/Nitrite	Nitrogen (Speciated) Ammonia	PFAS	TS12A Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01	Water	5.9.20	-	Bottles + Vials + Ice		x	x	x	x	x	x	x	x	x	x			
MW02	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
MW03	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
MW06	Water	"	-	"		x	x	x	x	x	x	x	x	x	x			
JB51-0-0.3	Soil	"	-	Bag + Jar + Ice														
JB64 0-0.1		"	-															
0.2-0.5		"	-															
0.5-1		"	-															
JB75 0-0.1		"	-											x			x	
0.2-0.5		"	-															
0.5-1		"	-											x			x	
JB76 0-0.1		"	-											x			x	
0.2-0.5		"	-															
JB77 0-0.1		"	-											x			x	
0.2-0.5		"	-															
JB78 0-0.1		"	-											x			x	
0.2-0.5		"	-															
QC Rinsate	Water	"	-	Bottles + Vials + Ice		x	x	x	x	x	x	x	x	x	x			M, As, Lab
QC7020905-NZ	Soil	"	-	Bag + Jar + Ice.														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Lim DATE: 5-9-20.	CONSIGNMENT NOTE NO.	NAME: M. Brocket	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	COOLER TEMP 9.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle: N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial: VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd: Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle: O = Other

JMSO Forms013 - Chain of Custody - Generic

742676/742692

~~4/4~~ ~~3/3~~ 15/15

CHAIN OF CUSTODY

PROJECT NO.: S8238	LABORATORY BATCH NO.:
PROJECT NAME: PLE	SAMPLERS: ML
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HOLD	JSZA	Asbestos 14m	PAH	OCP/OPP	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
JB7a 0-0.1	Soil	5-9-20	-	Bag, Ice + Jar			X					X	
0.2-0.5													
0.5-1													
JB15 0-0.1							X					X	
0.2-0.5													
0.5-1													
JB15A 0-0.1													
0.2-0.5													
0.5-1													
JB16 0-0.1						X							
0.1-0.4						X							
JB17 0.05-0.1						X							
0.2-0.5						X							
JB23 0-0.1							X	X	X	X			
JB25 0-0.1							X	X	X	X			
JB26 0-0.1							X	X	X	X			
BA20200905-ML	Soil	5.9.20		J+J		X							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M Hoz DATE: 6.9.20	CONSIGNMENT NOTE NO.	NAME: M. Birch	COOLER SEAL – Yes ~~No~~ ..... Intact ~~Broken~~ .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 07.09.20 6pm	COOLER TEMP 9.37 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

~~7421~~ 742676/742692

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Rolleston, Christchurch 7675
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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 7, 2020 6:00 PM
Eurofins reference	742692

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 9.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
X	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Continued from report 742676. As per SRA 742692: No cyanide bottle received for RIN02, CN free analysis cancelled. JB20_0-0.1 not received, analysis cancelled. No asbestos bag received for JB20_0.2-0.3, JB39_0.2-0.3, JB41_0.1-0.2, JB68_1.3-1.4, JB45_0.05-0.1 and QC20200905, asbestos analysis cancelled where applicable. JB60_0.6-0.9 received as JB60_0.8-0.9, logged as per sample. JB91_0.4-0.5 received as JB91_0.5-0.6, logged as per sample. Extra samples JB89_0.9-1.0 (jar and bag) and JB70_0-0.1 (jar and bag) received and logged on hold.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	JB75_0-0.1	Sep 05, 2020		Soil	S20-Se13406	X					X	X
2	JB75_0.5-1	Not Provided		Soil	S20-Se13407	X					X	X
3	JB76_0-0.1	Not Provided		Soil	S20-Se13408	X					X	X
4	JB77_0-0.1	Not Provided		Soil	S20-Se13409	X					X	X
5	JB78_0-0.1	Not Provided		Soil	S20-Se13410	X						
6	JB07A_0-0.1	Not Provided		Soil	S20-Se13411	X					X	X
7	JB15_0.2-0.5	Not Provided		Soil	S20-Se13412	X					X	X
8	JB23_0-0.1	Not Provided		Soil	S20-Se13413	X		X	X	X	X	
9	JB25_0-0.1	Not Provided		Soil	S20-Se13414	X		X	X	X	X	

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
10	JB26_0-0.1	Not Provided		Soil	S20-Se13415	X		X	X	X	X	
11	JB51_0-0.3	Sep 05, 2020		Soil	S20-Se13416		X					
12	JB64_0-0.1	Not Provided		Soil	S20-Se13417		X					
13	JB64_0.2-0.5	Not Provided		Soil	S20-Se13418		X					
14	JB64_0.5-1	Not Provided		Soil	S20-Se13419		X					
15	JB75_0.2-0.5	Not Provided		Soil	S20-Se13420		X					
16	JB76_0.2-0.5	Not Provided		Soil	S20-Se13421		X					
17	JB77_0.2-0.5	Not Provided		Soil	S20-Se13422		X					
18	JB78_0.2-0.5	Not Provided		Soil	S20-Se13423		X					
19	JB07A_0.2-0.5	Not Provided		Soil	S20-Se13424		X					
20	JB07A_0.5-1	Not Provided		Soil	S20-Se13425		X					
21	JB15_0-0.1	Not Provided		Soil	S20-Se13426		X					
22	JB15_0.5-1	Not Provided		Soil	S20-Se13427		X					

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
23	JB15A_0-0.1	Not Provided		Soil	S20-Se13428		X					
24	JB15A_0.2-0.5	Not Provided		Soil	S20-Se13429		X					
25	JB15A_0.5-1	Not Provided		Soil	S20-Se13430		X					
26	JB16_0-0.1	Not Provided		Soil	S20-Se13431		X					
27	JB16_0.1-0.4	Not Provided		Soil	S20-Se13432		X					
28	JB17_0.05-0.1	Not Provided		Soil	S20-Se13433		X					
29	JB17_0.2-0.5	Not Provided		Soil	S20-Se13434		X					
30	QC20200905	Not Provided		Soil	S20-Se13435		X					
31	QC20200905	Not Provided		Soil	S20-Se16016		X					
32	JB70_0-0.1	Not Provided		Soil	S20-Se16017		X					
33	JB89_0.9-1.0	Not Provided		Soil	S20-Se16018		X					
Test Counts						10	23	3	3	3	9	6

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	742692-AID
Project Name	PLE
Project ID	58238
Received Date	Sep 07, 2020
Date Reported	Sep 14, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PLE
Project ID 58238
Date Sampled Sep 05, 2020
Report 742692-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB75_0-0.1	20-Se13406	Sep 05, 2020	Approximate Sample 396g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB75_0.5-1	20-Se13407	not provided	Approximate Sample 595g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB76_0-0.1	20-Se13408	not provided	Approximate Sample 486g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB77_0-0.1	20-Se13409	not provided	Approximate Sample 432g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB78_0-0.1	20-Se13410	not provided	Approximate Sample 368g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB07A_0-0.1	20-Se13411	not provided	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB15_0.2-0.5	20-Se13412	not provided	Approximate Sample 533g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB23_0-0.1	20-Se13413	not provided	Approximate Sample 622g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB25_0-0.1	20-Se13414	not provided	Approximate Sample 532g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB26_0-0.1	20-Se13415	not provided	Approximate Sample 614g Sample consisted of: Brown coarse-grained soil, cement, brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 08, 2020	Indefinite

eurofins | Environment Testing

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NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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Rolleston, Christchurch 7675
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	JB75_0-0.1	Sep 05, 2020		Soil	S20-Se13406	X					X	X
2	JB75_0.5-1	Not Provided		Soil	S20-Se13407	X					X	X
3	JB76_0-0.1	Not Provided		Soil	S20-Se13408	X					X	X
4	JB77_0-0.1	Not Provided		Soil	S20-Se13409	X					X	X
5	JB78_0-0.1	Not Provided		Soil	S20-Se13410	X						
6	JB07A_0-0.1	Not Provided		Soil	S20-Se13411	X					X	X
7	JB15_0.2-0.5	Not Provided		Soil	S20-Se13412	X					X	X
8	JB23_0-0.1	Not Provided		Soil	S20-Se13413	X		X	X	X	X	
9	JB25_0-0.1	Not Provided		Soil	S20-Se13414	X		X	X	X	X	

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Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
10	JB26_0-0.1	Not Provided		Soil	S20-Se13415	X		X	X	X	X	
11	JB51_0-0.3	Sep 05, 2020		Soil	S20-Se13416		X					
12	JB64_0-0.1	Not Provided		Soil	S20-Se13417		X					
13	JB64_0.2-0.5	Not Provided		Soil	S20-Se13418		X					
14	JB64_0.5-1	Not Provided		Soil	S20-Se13419		X					
15	JB75_0.2-0.5	Not Provided		Soil	S20-Se13420		X					
16	JB76_0.2-0.5	Not Provided		Soil	S20-Se13421		X					
17	JB77_0.2-0.5	Not Provided		Soil	S20-Se13422		X					
18	JB78_0.2-0.5	Not Provided		Soil	S20-Se13423		X					
19	JB07A_0.2-0.5	Not Provided		Soil	S20-Se13424		X					
20	JB07A_0.5-1	Not Provided		Soil	S20-Se13425		X					
21	JB15_0-0.1	Not Provided		Soil	S20-Se13426		X					
22	JB15_0.5-1	Not Provided		Soil	S20-Se13427		X					

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Project ID: 58238

Order No.:
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Phone: 02 8245 0300
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Received: Sep 7, 2020 6:00 PM
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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
23	JB15A_0-0.1	Not Provided		Soil	S20-Se13428		X					
24	JB15A_0.2-0.5	Not Provided		Soil	S20-Se13429		X					
25	JB15A_0.5-1	Not Provided		Soil	S20-Se13430		X					
26	JB16_0-0.1	Not Provided		Soil	S20-Se13431		X					
27	JB16_0.1-0.4	Not Provided		Soil	S20-Se13432		X					
28	JB17_0.05-0.1	Not Provided		Soil	S20-Se13433		X					
29	JB17_0.2-0.5	Not Provided		Soil	S20-Se13434		X					
30	QC20200905	Not Provided		Soil	S20-Se13435		X					
31	QC20200905	Not Provided		Soil	S20-Se16016		X					
32	JB70_0-0.1	Not Provided		Soil	S20-Se16017		X					
33	JB89_0.9-1.0	Not Provided		Soil	S20-Se16018		X					
Test Counts						10	23	3	3	3	9	6

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se13406 & S20-Se13408 to S20-Se13410: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **742692-S**
Project name PLE
Project ID 58238
Received Date Sep 07, 2020

Client Sample ID			**JB75_0-0.1**	**JB75_0.5-1**	**JB76_0-0.1**	**JB77_0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se13406**	**S20-Se13407**	**S20-Se13408**	**S20-Se13409**
Date Sampled			**Sep 05, 2020**	**Not Provided**[I12]	**Not Provided**[I12]	**Not Provided**[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	66
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	57
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	123
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77	80	93	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB75_0-0.1	JB75_0.5-1	JB76_0-0.1	JB77_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13406	S20-Se13407	S20-Se13408	S20-Se13409
Date Sampled			Sep 05, 2020	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	111	114	113	119
p-Terphenyl-d14 (surr.)	1	%	104	103	103	89
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	109	83	105	118
Tetrachloro-m-xylene (surr.)	1	%	116	116	118	117
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	109	83	105	118
Tetrachloro-m-xylene (surr.)	1	%	116	116	118	117

Client Sample ID			JB75_0-0.1	JB75_0.5-1	JB76_0-0.1	JB77_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13406	S20-Se13407	S20-Se13408	S20-Se13409
Date Sampled			Sep 05, 2020	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.1	4.2	4.2	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	83	74	110	110
Copper	5	mg/kg	41	30	41	41
Lead	5	mg/kg	17	13	14	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	62	46	70	75
Zinc	5	mg/kg	68	43	61	65
% Moisture	1	%	21	21	19	27

Client Sample ID			JB07A_0-0.1	JB15_0.2-0.5	JB23_0-0.1	JB25_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13411	S20-Se13412	S20-Se13413	S20-Se13414
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	88	85	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB07A_0-0.1	JB15_0.2-0.5	JB23_0-0.1	JB25_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13411	S20-Se13412	S20-Se13413	S20-Se13414
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	119	104	118
p-Terphenyl-d14 (surr.)	1	%	81	87	90	79
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	110	99	INT	91
Tetrachloro-m-xylene (surr.)	1	%	95	119	108	96
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JB07A_0-0.1	JB15_0.2-0.5	JB23_0-0.1	JB25_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se13411	S20-Se13412	S20-Se13413	S20-Se13414
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	110	99	INT	91
Tetrachloro-m-xylene (surr.)	1	%	95	119	108	96
Heavy Metals						
Arsenic	2	mg/kg	4.5	4.6	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	110	94	10	22
Copper	5	mg/kg	42	63	23	39
Lead	5	mg/kg	16	64	6.6	6.4
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	79	120	6.7	14
Zinc	5	mg/kg	69	430	61	58
% Moisture	1	%	20	15	9.8	9.1

Client Sample ID			JB26_0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S20-Se13415
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	122
p-Terphenyl-d14 (surr.)	1	%	106

Client Sample ID			JB26_0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S20-Se13415
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	1	mg/kg	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2
Dibutylchlorendate (surr.)	1	%	112
Tetrachloro-m-xylene (surr.)	1	%	117
Polychlorinated Biphenyls			
Aroclor-1016	0.5	mg/kg	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5
Total PCB*	0.5	mg/kg	< 0.5
Dibutylchlorendate (surr.)	1	%	112
Tetrachloro-m-xylene (surr.)	1	%	117
Heavy Metals			
Arsenic	2	mg/kg	2.1
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	15
Copper	5	mg/kg	32
Lead	5	mg/kg	9.3
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	12
Zinc	5	mg/kg	110
% Moisture	1	%	8.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 09, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 09, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 09, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 09, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Sep 08, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	JB75_0-0.1	Sep 05, 2020		Soil	S20-Se13406	X					X	X
2	JB75_0.5-1	Not Provided		Soil	S20-Se13407	X					X	X
3	JB76_0-0.1	Not Provided		Soil	S20-Se13408	X					X	X
4	JB77_0-0.1	Not Provided		Soil	S20-Se13409	X					X	X
5	JB78_0-0.1	Not Provided		Soil	S20-Se13410	X						
6	JB07A_0-0.1	Not Provided		Soil	S20-Se13411	X					X	X
7	JB15_0.2-0.5	Not Provided		Soil	S20-Se13412	X					X	X
8	JB23_0-0.1	Not Provided		Soil	S20-Se13413	X		X	X	X	X	
9	JB25_0-0.1	Not Provided		Soil	S20-Se13414	X		X	X	X	X	

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 742692
Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
10	JB26_0-0.1	Not Provided		Soil	S20-Se13415	X		X	X	X	X	
11	JB51_0-0.3	Sep 05, 2020		Soil	S20-Se13416		X					
12	JB64_0-0.1	Not Provided		Soil	S20-Se13417		X					
13	JB64_0.2-0.5	Not Provided		Soil	S20-Se13418		X					
14	JB64_0.5-1	Not Provided		Soil	S20-Se13419		X					
15	JB75_0.2-0.5	Not Provided		Soil	S20-Se13420		X					
16	JB76_0.2-0.5	Not Provided		Soil	S20-Se13421		X					
17	JB77_0.2-0.5	Not Provided		Soil	S20-Se13422		X					
18	JB78_0.2-0.5	Not Provided		Soil	S20-Se13423		X					
19	JB07A_0.2-0.5	Not Provided		Soil	S20-Se13424		X					
20	JB07A_0.5-1	Not Provided		Soil	S20-Se13425		X					
21	JB15_0-0.1	Not Provided		Soil	S20-Se13426		X					
22	JB15_0.5-1	Not Provided		Soil	S20-Se13427		X					

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Project Name: PLE
Project ID: 58238

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Sep 7, 2020 6:00 PM
Due: Sep 14, 2020
Priority: 5 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Suite B13: OCP/PCB	Moisture Set	JBS&G Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
23	JB15A_0-0.1	Not Provided		Soil	S20-Se13428		X					
24	JB15A_0.2-0.5	Not Provided		Soil	S20-Se13429		X					
25	JB15A_0.5-1	Not Provided		Soil	S20-Se13430		X					
26	JB16_0-0.1	Not Provided		Soil	S20-Se13431		X					
27	JB16_0.1-0.4	Not Provided		Soil	S20-Se13432		X					
28	JB17_0.05-0.1	Not Provided		Soil	S20-Se13433		X					
29	JB17_0.2-0.5	Not Provided		Soil	S20-Se13434		X					
30	QC20200905	Not Provided		Soil	S20-Se13435		X					
31	QC20200905	Not Provided		Soil	S20-Se16016		X					
32	JB70_0-0.1	Not Provided		Soil	S20-Se16017		X					
33	JB89_0.9-1.0	Not Provided		Soil	S20-Se16018		X					
Test Counts						10	23	3	3	3	9	6

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	75			70-130	Pass	
TRH C10-C14	%	92			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	100			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	119			70-130	Pass	
Acenaphthylene	%	117			70-130	Pass	
Anthracene	%	114			70-130	Pass	
Benz(a)anthracene	%	112			70-130	Pass	
Benzo(a)pyrene	%	118			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	120			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	116			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	116			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	112			70-130	Pass	
Phenanthrene	%	115			70-130	Pass	
Pyrene	%	120			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	108			70-130	Pass	
4.4'-DDD	%	93			70-130	Pass	
4.4'-DDE	%	108			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-BHC	%	96			70-130	Pass	
Aldrin	%	115			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	99			70-130	Pass	
Dieldrin	%	126			70-130	Pass	
Endosulfan I	%	105			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	
Endosulfan sulphate	%	95			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	110			70-130	Pass	
Endrin ketone	%	103			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	102			70-130	Pass	
Heptachlor epoxide	%	93			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	
Methoxychlor	%	93			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	104			70-130	Pass	
Aroclor-1260	%	86			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
Cadmium	%	91			80-120	Pass	
Chromium	%	92			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	88			80-120	Pass	
Nickel	%	91			80-120	Pass	
Zinc	%	88			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se07598	NCP	%	81			70-130	Pass	
TRH C10-C14	S20-Se11771	NCP	%	80			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S20-Se13183	NCP	%	76			70-130	Pass	
Toluene	S20-Se13183	NCP	%	77			70-130	Pass	
Ethylbenzene	S20-Se13183	NCP	%	82			70-130	Pass	
m&p-Xylenes	S20-Se13183	NCP	%	85			70-130	Pass	
o-Xylene	S20-Se13183	NCP	%	87			70-130	Pass	
Xylenes - Total*	S20-Se13183	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se13183	NCP	%	82			70-130	Pass	
TRH C6-C10	S20-Se07598	NCP	%	82			70-130	Pass	
TRH >C10-C16	S20-Se11771	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se17222	NCP	%	91			70-130	Pass	
Acenaphthylene	S20-Se17222	NCP	%	86			70-130	Pass	
Anthracene	S20-Se17222	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S20-Se17222	NCP	%	81			70-130	Pass	
Benzo(a)pyrene	S20-Se17222	NCP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se17222	NCP	%	75			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se17222	NCP	%	92			70-130	Pass	
Benzo(k)fluoranthene	S20-Se17222	NCP	%	96			70-130	Pass	
Chrysene	S20-Se17222	NCP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se17222	NCP	%	88			70-130	Pass	
Fluoranthene	S20-Se17222	NCP	%	85			70-130	Pass	
Fluorene	S20-Se17222	NCP	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se17222	NCP	%	88			70-130	Pass	
Naphthalene	S20-Se17222	NCP	%	85			70-130	Pass	
Phenanthrene	S20-Se17222	NCP	%	85			70-130	Pass	
Pyrene	S20-Se17222	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se17222	NCP	%	99			70-130	Pass	
4.4'-DDD	S20-Se17222	NCP	%	85			70-130	Pass	
4.4'-DDE	S20-Se17222	NCP	%	98			70-130	Pass	
4.4'-DDT	S20-Se17222	NCP	%	79			70-130	Pass	
a-BHC	S20-Se17222	NCP	%	85			70-130	Pass	
Aldrin	S20-Se17222	NCP	%	105			70-130	Pass	
b-BHC	S20-Se17222	NCP	%	85			70-130	Pass	
d-BHC	S20-Se17222	NCP	%	95			70-130	Pass	
Dieldrin	S20-Se17222	NCP	%	84			70-130	Pass	
Endosulfan I	S20-Se17222	NCP	%	77			70-130	Pass	
Endosulfan II	S20-Se17222	NCP	%	91			70-130	Pass	
Endosulfan sulphate	S20-Se17222	NCP	%	83			70-130	Pass	
Endrin	S20-Se17222	NCP	%	80			70-130	Pass	
Endrin aldehyde	S20-Se06879	NCP	%	103			70-130	Pass	
Endrin ketone	S20-Se17222	NCP	%	82			70-130	Pass	
g-BHC (Lindane)	S20-Se17222	NCP	%	93			70-130	Pass	
Heptachlor	S20-Se17222	NCP	%	87			70-130	Pass	
Heptachlor epoxide	S20-Se17222	NCP	%	95			70-130	Pass	
Hexachlorobenzene	S20-Se17222	NCP	%	100			70-130	Pass	
Methoxychlor	S20-Se17222	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-Se17222	NCP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	S20-Se17222	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se13328	NCP	%	120			75-125	Pass	
Cadmium	S20-Se13328	NCP	%	120			75-125	Pass	
Chromium	S20-Se13328	NCP	%	117			75-125	Pass	
Copper	S20-Se13328	NCP	%	115			75-125	Pass	
Lead	S20-Se13328	NCP	%	118			75-125	Pass	
Mercury	S20-Se13328	NCP	%	119			75-125	Pass	
Nickel	S20-Se13328	NCP	%	117			75-125	Pass	
Zinc	S20-Se13328	NCP	%	118			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Se11764	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se11764	NCP	mg/kg	85	< 50	62	30%	Fail	Q15
TRH C29-C36	S20-Se11764	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Se11764	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se11764	NCP	mg/kg	110	< 100	55	30%	Fail	Q15
TRH >C34-C40	S20-Se11764	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se13406	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se13406	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se13406	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se13406	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se13406	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se16918	NCP	mg/kg	4.6	4.2	10	30%	Pass	
Cadmium	S20-Se16918	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se16918	NCP	mg/kg	12	12	1.0	30%	Pass	
Copper	S20-Se16918	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S20-Se16918	NCP	mg/kg	11	8.7	20	30%	Pass	
Mercury	S20-Se16918	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se16918	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S20-Se16918	NCP	mg/kg	5.7	< 5	38	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se10205	NCP	%	21	21	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se13408	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se13408	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se13408	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se13408	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se13408	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se13408	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se13408	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se13408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se13408	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S20-Se11764	NCP	mg/kg	< 1	< 1	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN OF CUSTODY

24470

JBS&G

PROJECT NO.: 58238
PROJECT NAME: Prospect
DATE NEEDED BY: 24hr TAT

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
PTC-1	Soil	11.9		P		X		
2								
3								
4								
5								
6				5 EDM 1			X	
7							X	
8				P		X		
9								
10								
11								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 14.9.20	CONSIGNMENT NOTE NO.	NAME: Lina D DATE: 14/09/20	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Envirolab 11:50 AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

743842

CHAIN OF CUSTODY

1 of 1

24470

JBS&G

PROJECT NO.: 58238.
PROJECT NAME: Prospect.
DATE NEEDED BY: 24hr TAT.

LABORATORY BATCH NO.:
SAMPLERS: N.S.
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAME DAY

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
DT2 - 1	Dust	11.9.		B			X		
2									
3									
4									
5									
6	Soil			500ml				X	
7								X	
8	Dust			B			X		
9									
10									
11									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 14.9.20	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

eurofins | Environment Testing

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Michael Swinfield
Project name:	PROSPECT
Project ID:	58238
Turnaround time:	Same day
Date/Time received	Sep 14, 2020 11:50 AM
Eurofins reference	743842

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✗	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Michael Swinfield - mswinfield@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

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Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT
Project ID: 58238

Order No.:
Report #: 743842
Phone: 02 8245 0300
Fax:

Received: Sep 14, 2020 11:50 AM
Due: Sep 14, 2020
Priority: Same day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Newcastle Laboratory							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	PT2-1	Sep 11, 2020		Dust	S20-Se22811	X	
2	PT2-2	Sep 11, 2020		Dust	S20-Se22812	X	
3	PT2-3	Sep 11, 2020		Dust	S20-Se22813	X	
4	PT2-4	Sep 11, 2020		Dust	S20-Se22814	X	
5	PT2-5	Sep 11, 2020		Dust	S20-Se22815	X	
6	PT2-6	Sep 11, 2020		Soil	S20-Se22816		X
7	PT2-7	Sep 11, 2020		Soil	S20-Se22817		X
8	PT2-8	Sep 11, 2020		Dust	S20-Se22818	X	
9	PT2-9	Sep 11, 2020		Dust	S20-Se22819	X	

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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NSW 2000

Project Name: PROSPECT
Project ID: 58238

Order No.:
Report #: 743842
Phone: 02 8245 0300
Fax:

Received: Sep 14, 2020 11:50 AM
Due: Sep 14, 2020
Priority: Same day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
10	PT2-10	Sep 11, 2020		Dust	S20-Se22820	X	
11	PT2-11	Sep 11, 2020		Dust	S20-Se22821	X	
Test Counts						9	2

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Michael Swinfield
Report	743842-AID
Project Name	PROSPECT
Project ID	58238
Received Date	Sep 14, 2020
Date Reported	Sep 14, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PROSPECT
Project ID 58238
Date Sampled Sep 11, 2020
Report 743842-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
PT2-1	20-Se22811	Sep 11, 2020	Approximate Sample 3g Sample consisted of: Dust particles, grey powder of plaster-like material	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
PT2-2	20-Se22812	Sep 11, 2020	Approximate Sample 283g Sample consisted of: Dust particles, soil residue, plaster-like material (powder form), fragments of plastic, corroded metal, cement, glass, soft fibrous material, brick, paint flakes and organic debris	Crocidolite asbestos detected in the form of loose fibre bundle. Approximate raw weight of asbestos = 0.00010g* Total estimated asbestos content in the sample = 0.00010g* Total estimated asbestos concentration = 0.000035% w/w* No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
PT2-3	20-Se22813	Sep 11, 2020	Approximate Sample 22g Sample consisted of: Dust particles, cement, brick, corroded metal, soft fibrous material, wood chips, plaster-like material fragments (and powder form) and organic debris	Chrysotile asbestos detected in fibrous plaster material. Approximate raw weight of asbestos containing material = 0.0015g Total estimated asbestos content in the sample = 0.00060g* Total estimated asbestos concentration = 0.0028% w/w* No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
PT2-4	20-Se22814	Sep 11, 2020	Approximate Sample 137g Sample consisted of: Dust particles, plaster material fragments (and in powder form), cement material fragments and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
PT2-5	20-Se22815	Sep 11, 2020	Approximate Sample 107g Sample consisted of: Dust particles, plaster (in powder form), wood chips, soft fibrous material and organic debris	Chrysotile, amosite and crocidolite asbestos detected in weathered fibrous plaster material. Chrysotile and crocidolite asbestos detected in the form of loose fibre bundles. Approximate raw weight of asbestos containing material = 0.10g* Total estimated asbestos content in the sample = 0.042g* Total estimated asbestos concentration = 0.039% w/w* Organic fibre detected. No trace asbestos detected.
PT2-6	20-Se22816	Sep 11, 2020	Approximate Sample 452g Sample consisted of: Brown coarse-grained sandy soil, rocks, wood chips and organic debris	AF: Chrysotile, amosite and crocidolite asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.0048g* Estimated asbestos content in AF = 0.0048g* Total estimated asbestos concentration in AF = 0.0011% w/w* Organic fibre detected. No trace asbestos detected.
PT2-7	20-Se22817	Sep 11, 2020	Approximate Sample 473g Sample consisted of: Brown coarse-grained sandy soil, rocks, wood chips and organic debris	AF: Chrysotile and crocidolite asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.0021g* Estimated asbestos content in AF = 0.0021g* Total estimated asbestos concentration in AF = 0.00044% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
PT2-8	20-Se22818	Sep 11, 2020	Approximate Sample 137g Sample consisted of: Dust particles, plaster material fragments (and in powder form), fragments of brick, cement, plastic, wood residue, soft fibrous material and organic debris	Chrysotile and crocidolite asbestos detected in the form of loose fibre bundles. Approximate raw weight of asbestos = 0.00020g* Total estimated asbestos content in the sample = 0.00018g* Total estimated asbestos concentration = 0.00013% w/w* No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
PT2-9	20-Se22819	Sep 11, 2020	Approximate Sample 146g Sample consisted of: Dust particles, plaster material (in powder form), fragments of metal, cement, soft fibrous material, wood residue and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
PT2-10	20-Se22820	Sep 11, 2020	Approximate Sample 170g Sample consisted of: Dust particles, soil residue, plaster-like material (in powder form), fragments of plastic, soft fibrous material, cement and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
PT2-11	20-Se22821	Sep 11, 2020	Approximate Sample 41g Sample consisted of: Dust particles, soil reside, fragments of cement, plastic, soft fibrous material, corroded metal, wood residue and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 14, 2020	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 14, 2020	Indefinite

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Site # 1254 & 14271

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43 Detroit Drive
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT
Project ID: 58238

Order No.:
Report #: 743842
Phone: 02 8245 0300
Fax:

Received: Sep 14, 2020 11:50 AM
Due: Sep 14, 2020
Priority: Same day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Newcastle Laboratory							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	PT2-1	Sep 11, 2020		Dust	S20-Se22811	X	
2	PT2-2	Sep 11, 2020		Dust	S20-Se22812	X	
3	PT2-3	Sep 11, 2020		Dust	S20-Se22813	X	
4	PT2-4	Sep 11, 2020		Dust	S20-Se22814	X	
5	PT2-5	Sep 11, 2020		Dust	S20-Se22815	X	
6	PT2-6	Sep 11, 2020		Soil	S20-Se22816		X
7	PT2-7	Sep 11, 2020		Soil	S20-Se22817		X
8	PT2-8	Sep 11, 2020		Dust	S20-Se22818	X	
9	PT2-9	Sep 11, 2020		Dust	S20-Se22819	X	

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
10	PT2-10	Sep 11, 2020		Dust	S20-Se22820	X	
11	PT2-11	Sep 11, 2020		Dust	S20-Se22821	X	
Test Counts						9	2

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se22816, S20-Se22817: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

24468

CHAIN OF CUSTODY

JBS&G

PROJECT NO.:

PROJECT NAME:

DATE NEEDED BY:

LABORATORY BATCH NO.: 744324

SAMPLERS:

QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..... @jbsg.com.au; (3) ..... @jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H.M	PAH (4,)	TRH	VOC	Nitrate/Nitrite Nitrogen (preferably Ammonia)	EC, pH, alkalinity	TSS	IFAs	OM, Iron	CEC,	Trip HM	Trip PAH	ASL H.M	Trip H.M	OCP/PCB	Asbestos	TYPE OF ASBESTOS ANALYSIS	NOTES:
						x	x	x	x					x	x					x	x	x	
													x								x	y	
																					x	y	
						x	x	x	x												x	x	
															•								
						x	x	x	x				x		x	x	x	y	x	x			
																					x	y	
						x	x	x	x											x	y	y	
																					x	y	
						x	x	x	x											x	x	y	
						x	y	x	y						x	x	x	x		x			
						x	x													x			
													x								x	y	
						x	x	x	y												x	y	
				+PFAS		x	x	x	x				x										
				+PFAS		x	x	x	y														

RELINQUISHED BY:	METHOD OF SHIPMENT	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Suzanne Ford	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 7/9/2020 4:04PM	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Eurofins	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic, J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd, VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd, ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

CHAIN OF CUSTODY

24469

JBS&G

PROJECT NO.:
PROJECT NAME:
DATE NEEDED BY:
LABORATORY BATCH NO.
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688.

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

~~Please log QA samples as part of this sample batch~~

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H+M	HAH (LL)	TPH	VOC	Nitrate/Nitrite	Nitrogen (speciated)	Ammonia	Ec, pH, alkalinity	TSS	PFAS	BTEX	OCP/PCB	8270A	VEP/VNA	NOTES
						X	X	X	X						X		X			*LL = low level for H2O samples
						X	X	X	X								X			
						X	X	X	X						X					
						X	X	X	X						X		X			
						X	X	X	X	X	X	X	X	X						
						X	X	X	X	X	X	X	X	X						
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X	X						
				+Pfas											X		X		X	
				3 NO PFAS													X		X	
				PFAS													X		X	
				PFAS											X					
				J+B																
TS/TB	Water			4x vial		X	X	X	X	X	X	X	X	X						

RELINQUISHED BY:

NAME: DATE:

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO.

RECEIVED BY:

NAME: Suzanne Lord
DATE: 16/9/2020 4:04pm
OF:

NAME: Eugene
DATE:
OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken

COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; F = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Form 013 - Chain of Custody - Generic

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Michael Swinfield
Project name:	PROSPECT DGI
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 15, 2020 4:04 PM
Eurofins reference	744324

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 10.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples; JBSED06, JBSED08 and JBSED09 PFAS tub not received - PFAS analysis cancelled.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Michael Swinfield - mswinfield@jbsg.com.au.

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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794			X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																										
Newcastle Laboratory																										
External Laboratory																										

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																					
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X	X	X			
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723															X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																						
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X			X			X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X			X			X	
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																						
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X			X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																						
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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Attention:	Michael Swinfield
Report	744324-AID
Project Name	PROSPECT DGI
Project ID	58238
Received Date	Sep 15, 2020
Date Reported	Sep 18, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PROSPECT DGI
Project ID 58238
Date Sampled Sep 11, 2020
Report 744324-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB110_0-0.1	20-Se26722	Sep 11, 2020	Approximate Sample 603g Sample consisted of: Brown coarse-grained clayey sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB111_0-0.1	20-Se26724	Sep 11, 2020	Approximate Sample 665g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB111_0.5-0.6	20-Se26725	Sep 11, 2020	Approximate Sample 467g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB113_0-0.1	20-Se26726	Sep 11, 2020	Approximate Sample 429g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB114_0-0.1	20-Se26727	Sep 11, 2020	Approximate Sample 414g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB114_0.5-0.6	20-Se26728	Sep 11, 2020	Approximate Sample 453g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB115_0-0.1	20-Se26729	Sep 11, 2020	Approximate Sample 541g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB115_0.4-0.5	20-Se26730	Sep 11, 2020	Approximate Sample 522g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB117_0.4-0.5	20-Se26733	Sep 11, 2020	Approximate Sample 517g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB118_0-0.1	20-Se26734	Sep 11, 2020	Approximate Sample 416g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB59_0-0.1	20-Se26747	Sep 11, 2020	Approximate Sample 406g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB61_0-0.1	20-Se26748	Sep 11, 2020	Approximate Sample 517g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB62_0-0.1	20-Se26749	Sep 11, 2020	Approximate Sample 542g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 15, 2020	Indefinite

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																																		
Newcastle Laboratory																																		
External Laboratory																																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																													
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X					X	X					X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																						X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																													
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X											X				X					X		X		X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X											X				X			X		X		X		X		X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																													
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X											X				X			X		X		X		X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																													
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X											X				X			X		X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731												X				X			X		X		X		X					
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732												X				X			X				X							
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																					X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X											X				X					X		X		X					
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735												X				X					X		X		X			X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736												X				X					X		X		X					
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737												X				X			X		X		X		X					
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738												X				X			X		X		X		X					
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739												X				X					X		X		X					
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740												X				X			X		X		X		X					
20	JBSW04	Sep 11, 2020		Water	S20-Se26741			X						X		X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742			X						X		X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743			X						X		X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
23	JBSW07	Sep 11, 2020		Water	S20-Se26744			X						X		X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745			X						X		X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X						X		X			X				X			X	X				X		X		X
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27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																					X			X				
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																					X			X				
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30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X						X		X			X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																												X	
32	TB	Sep 11, 2020		Water	S20-Se26753																		X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924												X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925												X			X	X													

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 18, 2020
Priority: Overnight
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926														X		X														
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927														X		X														
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928				X																										
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929					X																									
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930					X																									
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931					X																									
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932					X																									
Test Counts						13	7	7	5	5	1	1	7	7	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se26725, S20-Se26726, S20-Se26727, S20-Se26728, S20-Se26734, S20-Se26747: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-L**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JB113_0-0.1**	**JB116_0-0.1**	**JB113_0-0.1**	**JB116_0-0.1**
Sample Matrix			**US Leachate**	**US Leachate**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-Se26924**	**S20-Se26925**	**S20-Se26926**	**S20-Se26927**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	-	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	-	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Total PAH*	0.001	mg/L	< 0.001	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	137	145	-	-
p-Terphenyl-d14 (surr.)	1	%	124	132	-	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.005	< 0.005
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0005	< 0.0005
Chromium	0.05	mg/L	< 0.05	< 0.05	0.56	0.35
Copper	0.05	mg/L	< 0.05	< 0.05	0.08	0.05
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	0.01
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.0001	< 0.0001
Nickel	0.01	mg/L	0.01	0.01	0.29	0.16
Zinc	0.05	mg/L	< 0.05	0.08	0.17	0.12
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	-	-
pH (initial)	0.1	pH Units	8.0	7.7	-	-
pH (off)	0.1	pH Units	6.2	5.7	-	-
pH (USA HCl addition)	0.1	pH Units	1.7	1.7	-	-

Client Sample ID			JB113_0-0.1	JB116_0-0.1	JB113_0-0.1	JB116_0-0.1
Sample Matrix			US Leachate	US Leachate	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			S20-Se26924	S20-Se26925	S20-Se26926	S20-Se26927
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	-	-	4.0	4.0
pH (initial)	0.1	pH Units	-	-	6.9	6.8
pH (Leachate fluid)	0.1	pH Units	-	-	5.9	5.9
pH (off)	0.1	pH Units	-	-	8.5	8.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 16, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Sep 17, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Sep 16, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Sep 16, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794			X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																										
Newcastle Laboratory																										
External Laboratory																										

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																					
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X	X	X			
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723															X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																						
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X			X			X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X			X			X	
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																						
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X			X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																						
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

eurofins | Environment Testing

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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	128			70-130	Pass	
Anthracene	%	130			70-130	Pass	
Benzo(k)fluoranthene	%	130			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Pyrene	%	114			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	98			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	97			80-120	Pass	
Zinc	%	98			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26925	CP	%	104			75-125	Pass	
Cadmium	S20-Se26925	CP	%	94			75-125	Pass	
Chromium	S20-Se26925	CP	%	94			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	S20-Se26925	CP	%	91			75-125	Pass	
Lead	S20-Se26925	CP	%	96			75-125	Pass	
Mercury	S20-Se26925	CP	%	104			75-125	Pass	
Nickel	S20-Se26925	CP	%	92			75-125	Pass	
Zinc	S20-Se26925	CP	%	90			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26927	CP	%	86			75-125	Pass	
Cadmium	S20-Se26927	CP	%	89			75-125	Pass	
Chromium	S20-Se26927	CP	%	107			75-125	Pass	
Copper	S20-Se26927	CP	%	85			75-125	Pass	
Lead	S20-Se26927	CP	%	95			75-125	Pass	
Mercury	S20-Se26927	CP	%	101			75-125	Pass	
Nickel	S20-Se26927	CP	%	107			75-125	Pass	
Zinc	S20-Se26927	CP	%	83			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26926	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S20-Se26926	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S20-Se26926	CP	mg/L	0.56	0.60	6.0	30%	Pass	
Copper	S20-Se26926	CP	mg/L	0.08	0.08	9.0	30%	Pass	
Lead	S20-Se26926	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S20-Se26926	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se26926	CP	mg/L	0.29	0.32	8.0	30%	Pass	
Zinc	S20-Se26926	CP	mg/L	0.17	0.16	5.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-S**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JB110_0-0.1**	**JB110_0.6-0.7**	**JB111_0.5-0.6**	**JB113_0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se26722**	**S20-Se26723**	**S20-Se26725**	**S20-Se26726**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	92	-	79	86
Toluene-d8 (surr.)	1	%	91	-	89	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	-	71	67
p-Terphenyl-d14 (surr.)	1	%	93	-	99	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	95	-	-	131
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	89
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	95	-	-	131
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	89
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	57	-	-	-
Organic Matter %	0.01	% w/w	7.1	-	-	-
% Moisture	1	%	17	21	21	25
Heavy Metals						
Arsenic	2	mg/kg	2.3	-	3.1	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	84	-	110	330
Copper	5	mg/kg	43	-	41	49
Iron	20	mg/kg	43000	-	-	-
Lead	5	mg/kg	7.7	-	13	6.7
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	150	-	79	260
Zinc	5	mg/kg	72	-	67	63
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	42	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	82	-	83
13C5-PFPeA (surr.)	1	%	-	91	-	90
13C5-PFHxA (surr.)	1	%	-	92	-	94
13C4-PFHpA (surr.)	1	%	-	85	-	85
13C8-PFOA (surr.)	1	%	-	91	-	90
13C5-PFNA (surr.)	1	%	-	104	-	100
13C6-PFDA (surr.)	1	%	-	120	-	123
13C2-PFUnDA (surr.)	1	%	-	125	-	129
13C2-PFDoDA (surr.)	1	%	-	129	-	125
13C2-PFTeDA (surr.)	1	%	-	121	-	119
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	< 5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	87	-	89
D3-N-MeFOSA (surr.)	1	%	-	105	-	112
D5-N-EtFOSA (surr.)	1	%	-	130	-	131
D7-N-MeFOSE (surr.)	1	%	-	82	-	82
D9-N-EtFOSE (surr.)	1	%	-	60	-	64
D5-N-EtFOSAA (surr.)	1	%	-	89	-	97
D3-N-MeFOSAA (surr.)	1	%	-	129	-	128
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	98	-	90
18O2-PFHxS (surr.)	1	%	-	93	-	94
13C8-PFOS (surr.)	1	%	-	109	-	107
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	72	-	67
13C2-6:2 FTSA (surr.)	1	%	-	77	-	92
13C2-8:2 FTSA (surr.)	1	%	-	143	-	156
13C2-10:2 FTSA (surr.)	1	%	-	159	-	153
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	89	87	88	-
Toluene-d8 (surr.)	1	%	92	91	91	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	78	74	80
p-Terphenyl-d14 (surr.)	1	%	97	101	96	97

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	76	128	71	95
Tetrachloro-m-xylene (surr.)	1	%	90	92	91	89
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	76	128	71	95
Tetrachloro-m-xylene (surr.)	1	%	90	92	91	89
% Moisture	1	%	23	21	22	19
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.5	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	240	240	210	97
Copper	5	mg/kg	32	32	42	39
Lead	5	mg/kg	7.8	6.9	9.4	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	170	150	140	78
Zinc	5	mg/kg	50	73	72	79

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	120	< 50
TRH C29-C36	50	mg/kg	-	64	230	< 50
TRH C10-C36 (Total)	50	mg/kg	-	64	350	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	90	82	85
Toluene-d8 (surr.)	1	%	-	91	91	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	230	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	230	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	82	79	81
p-Terphenyl-d14 (surr.)	1	%	-	96	111	97
% Moisture	1	%	43	19	66	45

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	4.4	2.7	7.7
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	98	63	66
Copper	5	mg/kg	-	50	49	41
Lead	5	mg/kg	-	23	16	29
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	66	64	64
Zinc	5	mg/kg	-	97	360	200
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	77	-	69	-
13C5-PFPeA (surr.)	1	%	88	-	79	-
13C5-PFHxA (surr.)	1	%	90	-	83	-
13C4-PFHpA (surr.)	1	%	86	-	78	-
13C8-PFOA (surr.)	1	%	87	-	79	-
13C5-PFNA (surr.)	1	%	101	-	83	-
13C6-PFDA (surr.)	1	%	125	-	100	-
13C2-PFUnDA (surr.)	1	%	119	-	97	-
13C2-PFDoDA (surr.)	1	%	121	-	101	-
13C2-PFTeDA (surr.)	1	%	126	-	95	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	90	-	75	-
D3-N-MeFOSA (surr.)	1	%	110	-	86	-
D5-N-EtFOSA (surr.)	1	%	133	-	98	-
D7-N-MeFOSE (surr.)	1	%	88	-	68	-
D9-N-EtFOSE (surr.)	1	%	68	-	62	-
D5-N-EtFOSAA (surr.)	1	%	93	-	83	-
D3-N-MeFOSAA (surr.)	1	%	127	-	97	-

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	98	-	84	-
18O2-PFHxS (surr.)	1	%	103	-	89	-
13C8-PFOS (surr.)	1	%	108	-	91	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	68	-	81	-
13C2-6:2 FTSA (surr.)	1	%	90	-	131	-
13C2-8:2 FTSA (surr.)	1	%	162	-	137	-
13C2-10:2 FTSA (surr.)	1	%	153	-	122	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	90	< 50	110
TRH C29-C36	50	mg/kg	64	230	< 50	100
TRH C10-C36 (Total)	50	mg/kg	64	320	< 50	210
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	81	81	76	76
Toluene-d8 (surr.)	1	%	92	91	90	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	200	< 100	120
TRH >C34-C40	100	mg/kg	< 100	110	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	310	< 100	120
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	71	77	79
p-Terphenyl-d14 (surr.)	1	%	109	100	104	119
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	0.07	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	126	90	-	142
Tetrachloro-m-xylene (surr.)	1	%	103	87	-	109
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	126	90	-	142
Tetrachloro-m-xylene (surr.)	1	%	103	87	-	109
% Moisture	1	%	49	72	57	75
Heavy Metals						
Arsenic	2	mg/kg	5.0	< 2	3.1	20
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	53	40	49	70
Copper	5	mg/kg	34	45	36	190
Lead	5	mg/kg	20	19	20	53
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.2
Nickel	5	mg/kg	41	45	46	41
Zinc	5	mg/kg	84	310	110	370

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	60
TRH C29-C36	50	mg/kg	< 50	120	210
TRH C10-C36 (Total)	50	mg/kg	< 50	120	270

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	140	230
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	140	230
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	87	88
p-Terphenyl-d14 (surr.)	1	%	108	112	116
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	92	109	141
Tetrachloro-m-xylene (surr.)	1	%	102	95	98
Polychlorinated Biphenyls					
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	92	109	141
Tetrachloro-m-xylene (surr.)	1	%	102	95	98
% Moisture	1	%	29	24	16
Heavy Metals					
Arsenic	2	mg/kg	5.6	5.8	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	230	66	160
Copper	5	mg/kg	49	170	47
Lead	5	mg/kg	28	20	28
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	99	75	110
Zinc	5	mg/kg	86	120	110
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-
13C4-PFBA (surr.)	1	%	84	-	-
13C5-PFPeA (surr.)	1	%	94	-	-
13C5-PFHxA (surr.)	1	%	102	-	-
13C4-PFHpA (surr.)	1	%	94	-	-
13C8-PFOA (surr.)	1	%	97	-	-

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
13C5-PFNA (surr.)	1	%	107	-	-
13C6-PFDA (surr.)	1	%	123	-	-
13C2-PFUnDA (surr.)	1	%	116	-	-
13C2-PFDoDA (surr.)	1	%	119	-	-
13C2-PFTeDA (surr.)	1	%	114	-	-
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-
13C8-FOSA (surr.)	1	%	91	-	-
D3-N-MeFOSA (surr.)	1	%	110	-	-
D5-N-EtFOSA (surr.)	1	%	128	-	-
D7-N-MeFOSE (surr.)	1	%	82	-	-
D9-N-EtFOSE (surr.)	1	%	56	-	-
D5-N-EtFOSAA (surr.)	1	%	98	-	-
D3-N-MeFOSAA (surr.)	1	%	109	-	-
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-
13C3-PFBS (surr.)	1	%	100	-	-
18O2-PFHxS (surr.)	1	%	100	-	-
13C8-PFOS (surr.)	1	%	107	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	96	-	-
13C2-6:2 FTSA (surr.)	1	%	117	-	-
13C2-8:2 FTSA (surr.)	1	%	133	-	-
13C2-10:2 FTSA (surr.)	1	%	168	-	-

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	57	86	88

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 17, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 17, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 16, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Sep 16, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organic Matter %	Melbourne	Sep 18, 2020	5 Days
- Method: APHA 2540E Fixed and Volatile Solids Ignited at 550C			
Heavy Metals	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Sep 17, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Sep 18, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Sydney	Sep 15, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
Newcastle Laboratory																															
External Laboratory																															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																										
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																			X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																										
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X					X		X		X					
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X		X		X		X			X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																										
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X		X		X		X					
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																										
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X		X		X		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	81			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	103			70-130	Pass	
1.1.1-Trichloroethane	%	103			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2-Dichloroethane	%	110			70-130	Pass	
Benzene	%	108			70-130	Pass	
Ethylbenzene	%	112			70-130	Pass	
m&p-Xylenes	%	115			70-130	Pass	
o-Xylene	%	114			70-130	Pass	
Toluene	%	113			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Xylenes - Total*	%	115			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	103			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	113			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	86			70-130	Pass	
Acenaphthylene	%	70			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	74			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	77			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	86			70-130	Pass	
Dibenz(a.h)anthracene	%	71			70-130	Pass	
Fluoranthene	%	72			70-130	Pass	
Fluorene	%	78			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	74			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	85			70-130	Pass	
4.4'-DDE	%	84			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-BHC	%	88			70-130	Pass	
Aldrin	%	82			70-130	Pass	
b-BHC	%	87			70-130	Pass	
d-BHC	%	88			70-130	Pass	
Dieldrin	%	92			70-130	Pass	
Endosulfan I	%	79			70-130	Pass	
Endosulfan II	%	87			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	87			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	87			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	85			70-130	Pass	
Heptachlor epoxide	%	73			70-130	Pass	
Hexachlorobenzene	%	73			70-130	Pass	
Methoxychlor	%	82			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	104			70-130	Pass	
Aroclor-1260	%	128			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Cadmium	%	92			80-120	Pass	
Chromium	%	98			80-120	Pass	
Copper	%	101			80-120	Pass	
Iron	%	99			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	109			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	91			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	93			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	88			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	96			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	88			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	82			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	78			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	93			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	70			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	81			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S20-Se17688	NCP	%	77			70-130	Pass	
1.1.1-Trichloroethane	S20-Se17688	NCP	%	77			70-130	Pass	
1.2-Dichlorobenzene	S20-Se17688	NCP	%	80			70-130	Pass	
1.2-Dichloroethane	S20-Se17688	NCP	%	82			70-130	Pass	
Benzene	S20-Se16523	NCP	%	82			70-130	Pass	
Ethylbenzene	S20-Se16523	NCP	%	82			70-130	Pass	
m&p-Xylenes	S20-Se16523	NCP	%	84			70-130	Pass	
o-Xylene	S20-Se16523	NCP	%	84			70-130	Pass	
Toluene	S20-Se16523	NCP	%	83			70-130	Pass	
Trichloroethene	S20-Se17688	NCP	%	78			70-130	Pass	
Xylenes - Total*	S20-Se16523	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se16523	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se26722	CP	%	87			70-130	Pass	
Acenaphthylene	S20-Se26722	CP	%	75			70-130	Pass	
Anthracene	S20-Se26722	CP	%	79			70-130	Pass	
Benz(a)anthracene	S20-Se26722	CP	%	78			70-130	Pass	
Benzo(a)pyrene	S20-Se26722	CP	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se26722	CP	%	75			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se26722	CP	%	92			70-130	Pass	
Benzo(k)fluoranthene	S20-Se26722	CP	%	77			70-130	Pass	
Chrysene	S20-Se26722	CP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se26722	CP	%	80			70-130	Pass	
Fluoranthene	S20-Se26722	CP	%	75			70-130	Pass	
Fluorene	S20-Se26722	CP	%	81			70-130	Pass	
Naphthalene	S20-Se26722	CP	%	82			70-130	Pass	
Phenanthrene	S20-Se26722	CP	%	80			70-130	Pass	
Pyrene	S20-Se26722	CP	%	78			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S20-Se25947	NCP	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	S20-Se25947	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	S20-Se28523	NCP	%	100			75-125	Pass	
Nickel	S20-Se28523	NCP	%	103			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26726	CP	%	91			75-125	Pass	
Cadmium	S20-Se26726	CP	%	98			75-125	Pass	
Chromium	S20-Se26726	CP	%	123			75-125	Pass	
Copper	S20-Se26726	CP	%	99			75-125	Pass	
Lead	S20-Se26726	CP	%	112			75-125	Pass	
Mercury	S20-Se26726	CP	%	114			75-125	Pass	
Zinc	S20-Se26726	CP	%	105			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26726	CP	%	66			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26726	CP	%	69			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26726	CP	%	69			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26726	CP	%	70			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26726	CP	%	68			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26726	CP	%	70			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26726	CP	%	54			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26726	CP	%	68			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se26726	CP	%	66			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26726	CP	%	66			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26726	CP	%	72			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26726	CP	%	68			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26726	CP	%	63			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26726	CP	%	64			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26726	CP	%	69			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se26726	CP	%	58			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26726	CP	%	64			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26726	CP	%	71			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26726	CP	%	64			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26726	CP	%	62			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26726	CP	%	75			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26726	CP	%	61			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26726	CP	%	76			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26726	CP	%	67			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26726	CP	%	58			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26726	CP	%	57			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26726	CP	%	68			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Se26734	CP	%	124			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se26737	CP	%	90			70-130	Pass	
Acenaphthylene	S20-Se26737	CP	%	76			70-130	Pass	
Anthracene	S20-Se26737	CP	%	88			70-130	Pass	
Benz(a)anthracene	S20-Se26737	CP	%	82			70-130	Pass	
Benzo(a)pyrene	S20-Se26737	CP	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se26737	CP	%	75			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se26737	CP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S20-Se26737	CP	%	88			70-130	Pass	
Chrysene	S20-Se26737	CP	%	94			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se26737	CP	%	86			70-130	Pass	
Fluoranthene	S20-Se26737	CP	%	82			70-130	Pass	
Fluorene	S20-Se26737	CP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26737	CP	%	72			70-130	Pass	
Naphthalene	S20-Se26737	CP	%	79			70-130	Pass	
Phenanthrene	S20-Se26737	CP	%	84			70-130	Pass	
Pyrene	S20-Se26737	CP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se26737	CP	%	75			70-130	Pass	
4.4'-DDD	S20-Se26737	CP	%	85			70-130	Pass	
4.4'-DDE	S20-Se26737	CP	%	79			70-130	Pass	
4.4'-DDT	S20-Se26737	CP	%	90			70-130	Pass	
a-BHC	S20-Se26737	CP	%	83			70-130	Pass	
Aldrin	S20-Se26737	CP	%	71			70-130	Pass	
b-BHC	S20-Se26737	CP	%	86			70-130	Pass	
d-BHC	S20-Se26737	CP	%	85			70-130	Pass	
Dieldrin	S20-Se26737	CP	%	90			70-130	Pass	
Endosulfan I	S20-Se26737	CP	%	89			70-130	Pass	
Endosulfan II	S20-Se26737	CP	%	73			70-130	Pass	
Endosulfan sulphate	S20-Se26737	CP	%	81			70-130	Pass	
Endrin	S20-Se26737	CP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S20-Se26737	CP	%	74			70-130	Pass	
g-BHC (Lindane)	S20-Se26737	CP	%	89			70-130	Pass	
Heptachlor	S20-Se26737	CP	%	95			70-130	Pass	
Hexachlorobenzene	S20-Se26737	CP	%	83			70-130	Pass	
Methoxychlor	S20-Se26737	CP	%	86			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-Se26737	CP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se22114	NCP	%	96			70-130	Pass	
TRH C10-C14	M20-Se28375	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S20-Se22114	NCP	%	102			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se17548	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Se17548	NCP	mg/kg	0.5	< 0.5	200	30%	Fail	Q15
Chloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
cis-1.2-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	S20-Se17548	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	S20-Se17548	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se17548	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S20-Se26722	CP	uS/cm	57	76	28	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26723	CP	%	21	22	4.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26725	CP	mg/kg	3.1	3.1	2.0	30%	Pass	
Cadmium	S20-Se26725	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se26725	CP	mg/kg	110	110	<1	30%	Pass	
Copper	S20-Se26725	CP	mg/kg	41	55	30	30%	Pass	
Lead	S20-Se26725	CP	mg/kg	13	14	13	30%	Pass	
Mercury	S20-Se26725	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se26725	CP	mg/kg	79	90	12	30%	Pass	
Zinc	S20-Se26725	CP	mg/kg	67	82	20	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26726	CP	%	25	23	7.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Se26731	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se26731	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Se26731	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se26731	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se26731	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se26731	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26738	CP	mg/kg	< 2	3.5	54	30%	Fail	Q15
Cadmium	S20-Se26738	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se26738	CP	mg/kg	40	58	38	30%	Fail	Q15
Copper	S20-Se26738	CP	mg/kg	45	61	29	30%	Pass	
Iron	S20-Se26738	CP	mg/kg	21000	32000	39	30%	Fail	Q15
Lead	S20-Se26738	CP	mg/kg	19	24	25	30%	Pass	
Mercury	S20-Se26738	CP	mg/kg	0.1	0.1	4.0	30%	Pass	
Nickel	S20-Se26738	CP	mg/kg	45	61	31	30%	Fail	Q15
Zinc	S20-Se26738	CP	mg/kg	310	350	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26739	CP	%	57	53	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-W**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JBSW04**	**JBSW05**	**JBSW06**	**JBSW07**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se26741**	**S20-Se26742**	**S20-Se26743**	**S20-Se26744**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	81	77	84	74
Toluene-d8 (surr.)	1	%	98	87	95	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	50	52	52	54
p-Terphenyl-d14 (surr.)	1	%	53	54	52	52
Ammonia (as N)	0.01	mg/L	0.03	0.02	0.01	0.03
Conductivity (at 25°C)	10	uS/cm	250	270	270	420
Nitrate & Nitrite (as N)	0.05	mg/L	0.16	0.06	0.11	0.13
Nitrate (as N)	0.02	mg/L	0.15	0.05	0.10	0.12
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Organic Nitrogen (as N)*	0.2	mg/L	0.47	< 0.2	1.49	0.37
pH (at 25 °C)	0.1	pH Units	7.6	7.7	7.5	8.2
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.5	0.2	1.5	0.4
Total Nitrogen (as N)*	0.2	mg/L	0.66	0.26	1.61	0.53
Total Suspended Solids Dried at 103–105°C	5	mg/L	7.2	6.4	8.2	5.8
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	94	85	92	160
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	94	85	92	160
Heavy Metals						
Arsenic	0.001	mg/L	-	< 0.001	-	-
Arsenic (filtered)	0.001	mg/L	< 0.001	-	< 0.001	0.001
Cadmium	0.0002	mg/L	-	< 0.0002	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	< 0.0002	< 0.0002
Chromium	0.001	mg/L	-	< 0.001	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	-	< 0.001	0.002
Copper	0.001	mg/L	-	0.001	-	-
Copper (filtered)	0.001	mg/L	0.003	-	0.002	0.003
Lead	0.001	mg/L	-	< 0.001	-	-
Lead (filtered)	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Mercury	0.0001	mg/L	-	< 0.0001	-	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	< 0.0001	< 0.0001
Nickel	0.001	mg/L	-	0.002	-	-
Nickel (filtered)	0.001	mg/L	0.003	-	< 0.001	0.005
Zinc	0.005	mg/L	-	0.019	-	-
Zinc (filtered)	0.005	mg/L	0.048	-	0.014	0.073
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C4-PFBA (surr.)	1	%	86	97	-	-
13C5-PFPeA (surr.)	1	%	97	99	-	-
13C5-PFHxA (surr.)	1	%	97	101	-	-
13C4-PFHpA (surr.)	1	%	125	133	-	-
13C8-PFOA (surr.)	1	%	130	140	-	-
13C5-PFNA (surr.)	1	%	127	137	-	-
13C6-PFDA (surr.)	1	%	141	150	-	-
13C2-PFUnDA (surr.)	1	%	116	125	-	-
13C2-PFDoDA (surr.)	1	%	111	106	-	-
13C2-PFTeDA (surr.)	1	%	56	39	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
13C8-FOSA (surr.)	1	%	95	102	-	-
D3-N-MeFOSA (surr.)	1	%	55	47	-	-
D5-N-EtFOSA (surr.)	1	%	58	44	-	-
D7-N-MeFOSE (surr.)	1	%	68	71	-	-
D9-N-EtFOSE (surr.)	1	%	73	74	-	-
D5-N-EtFOSAA (surr.)	1	%	81	70	-	-
D3-N-MeFOSAA (surr.)	1	%	85	79	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
13C3-PFBS (surr.)	1	%	101	110	-	-
18O2-PFHxS (surr.)	1	%	114	124	-	-
13C8-PFOS (surr.)	1	%	109	119	-	-

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C2-4:2 FTSA (surr.)	1	%	77	88	-	-
13C2-6:2 FTSA (surr.)	1	%	136	155	-	-
13C2-8:2 FTSA (surr.)	1	%	104	121	-	-
13C2-10:2 FTSA (surr.)	1	%	93	94	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	-

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	81	79	-	75
Toluene-d8 (surr.)	1	%	95	87	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-	< 0.1

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	52	54	-	50
p-Terphenyl-d14 (surr.)	1	%	54	52	-	51
Ammonia (as N)	0.01	mg/L	0.03	< 0.01	-	< 0.01
Conductivity (at 25°C)	10	uS/cm	620	6700	-	< 10
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	0.10	-	< 0.05
Nitrate (as N)	0.02	mg/L	< 0.02	0.06	-	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	0.04	-	< 0.02
Organic Nitrogen (as N)*	0.2	mg/L	1.57	< 0.2	-	< 0.2
pH (at 25 °C)	0.1	pH Units	7.7	7.9	-	3.9
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	1.6	< 0.2	-	< 0.2
Total Nitrogen (as N)*	0.2	mg/L	1.6	< 0.2	-	< 0.2
Total Suspended Solids Dried at 103–105°C	5	mg/L	160	68	-	< 1
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	260	1000	-	< 20
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	-	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	-	< 20
Total Alkalinity (as CaCO3)	20	mg/L	260	1000	-	< 20
Heavy Metals						
Arsenic	0.001	mg/L	-	-	-	< 0.001
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Cadmium	0.0002	mg/L	-	-	-	< 0.0002
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium	0.001	mg/L	-	-	-	< 0.001
Chromium (filtered)	0.001	mg/L	< 0.001	0.001	-	-
Copper	0.001	mg/L	-	-	-	< 0.001
Copper (filtered)	0.001	mg/L	0.005	0.003	-	-
Lead	0.001	mg/L	-	-	-	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Mercury	0.0001	mg/L	-	-	-	< 0.0001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Nickel	0.001	mg/L	-	-	-	< 0.001

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel (filtered)	0.001	mg/L	0.001	0.004	-	-
Zinc	0.005	mg/L	-	-	-	< 0.005
Zinc (filtered)	0.005	mg/L	0.016	0.047	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	-	100	95	124
13C5-PFPeA (surr.)	1	%	-	105	98	133
13C5-PFHxA (surr.)	1	%	-	108	104	122
13C4-PFHpA (surr.)	1	%	-	136	132	156
13C8-PFOA (surr.)	1	%	-	134	136	140
13C5-PFNA (surr.)	1	%	-	139	136	142
13C6-PFDA (surr.)	1	%	-	154	147	149
13C2-PFUnDA (surr.)	1	%	-	143	118	131
13C2-PFDoDA (surr.)	1	%	-	139	98	125
13C2-PFTeDA (surr.)	1	%	-	71	35	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	-	105	99	86
D3-N-MeFOSA (surr.)	1	%	-	71	57	65
D5-N-EtFOSA (surr.)	1	%	-	72	56	63
D7-N-MeFOSE (surr.)	1	%	-	86	73	81
D9-N-EtFOSE (surr.)	1	%	-	92	75	83
D5-N-EtFOSAA (surr.)	1	%	-	74	58	62
D3-N-MeFOSAA (surr.)	1	%	-	74	66	64
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	-	105	112	113
18O2-PFHxS (surr.)	1	%	-	119	124	115
13C8-PFOS (surr.)	1	%	-	118	114	122
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	79	87	92
13C2-6:2 FTSA (surr.)	1	%	-	132	158	97
13C2-8:2 FTSA (surr.)	1	%	-	94	116	81
13C2-10:2 FTSA (surr.)	1	%	-	104	84	78
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1	< 0.1	< 0.1

Client Sample ID			TS	TB
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Se26752	S20-Se26753
Date Sampled			Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	120	-
Ethylbenzene	1	%	96	-
m&p-Xylenes	1	%	100	-
o-Xylene	1	%	94	-
Toluene	1	%	110	-
Xylenes - Total	1	%	97	-
4-Bromofluorobenzene (surr.)	1	%	98	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	98

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 15, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 17, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Sep 15, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Sep 15, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Conductivity (at 25°C)	Melbourne	Sep 16, 2020	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Melbourne	Sep 16, 2020	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Total Suspended Solids Dried at 103–105°C	Melbourne	Sep 16, 2020	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Alkalinity (speciated)	Melbourne	Sep 17, 2020	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Metals M8 filtered	Sydney	Sep 15, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Nitrogens (speciated)			
Ammonia (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate & Nitrite (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrate (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Sep 17, 2020	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Sep 15, 2020	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-INO-4310 TKN in Waters & Soils by FIA			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
Newcastle Laboratory																															
External Laboratory																															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																										
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																			X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																										
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X					X		X		X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X		X		X		X		X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																										
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X		X		X		X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																										
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X		X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Total Suspended Solids Dried at 103–105°C	mg/L	< 5			5	Pass	
Method Blank							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	102			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	127			70-130	Pass	
1.1.1-Trichloroethane	%	100			70-130	Pass	
1.2-Dichlorobenzene	%	106			70-130	Pass	
1.2-Dichloroethane	%	116			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	%	102			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Toluene	%	104			70-130	Pass	
Trichloroethene	%	97			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	97			70-130	Pass	
TRH >C10-C16	%	100			70-130	Pass	
LCS - % Recovery							
Total Kjeldahl Nitrogen (as N)	%	100			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	%	96			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	103			70-130	Pass	
Total Alkalinity (as CaCO3)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Arsenic (filtered)	%	102			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Cadmium (filtered)	%	100			80-120	Pass	
Chromium	%	95			80-120	Pass	
Chromium (filtered)	%	99			80-120	Pass	
Copper	%	95			80-120	Pass	
Copper (filtered)	%	99			80-120	Pass	
Lead	%	97			80-120	Pass	
Lead (filtered)	%	99			80-120	Pass	
Mercury	%	104			80-120	Pass	
Mercury (filtered)	%	115			80-120	Pass	
Nickel	%	95			80-120	Pass	
Nickel (filtered)	%	101			80-120	Pass	
Zinc	%	94			80-120	Pass	
Zinc (filtered)	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	110			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	112			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	112			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	125			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	117			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	95			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	129			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	100			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	130			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	86			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	74			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	91			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	88			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Total Suspended Solids Dried at 103–105°C	S20-Se26741	CP	%	106			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se25658	NCP	%	97			75-125	Pass	
Cadmium	S20-Se25658	NCP	%	93			75-125	Pass	
Chromium	S20-Se25658	NCP	%	94			75-125	Pass	
Copper	S20-Se25658	NCP	%	91			75-125	Pass	
Lead	S20-Se25658	NCP	%	93			75-125	Pass	
Mercury	S20-Se25658	NCP	%	101			75-125	Pass	
Nickel	S20-Se25658	NCP	%	92			75-125	Pass	
Zinc	S20-Se25658	NCP	%	91			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se26742	CP	%	114			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26742	CP	%	109			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26742	CP	%	111			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26742	CP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26742	CP	%	126			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26742	CP	%	108			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26742	CP	%	83			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26742	CP	%	96			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26742	CP	%	117			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26742	CP	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26742	CP	%	82			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	S20-Se26742	CP	%	122			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26742	CP	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26742	CP	%	65			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26742	CP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26742	CP	%	82			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26742	CP	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26742	CP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se26742	CP	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26742	CP	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26742	CP	%	119			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26742	CP	%	77			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26742	CP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26742	CP	%	82			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26742	CP	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26742	CP	%	76			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26742	CP	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26742	CP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26742	CP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26742	CP	%	87			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S20-Se26746	CP	%	125			75-125	Pass	
Cadmium (filtered)	S20-Se26746	CP	%	111			75-125	Pass	
Chromium (filtered)	S20-Se26746	CP	%	113			75-125	Pass	
Copper (filtered)	S20-Se26746	CP	%	107			75-125	Pass	
Lead (filtered)	S20-Se26746	CP	%	110			75-125	Pass	
Mercury (filtered)	S20-Se26746	CP	%	114			75-125	Pass	
Nickel (filtered)	S20-Se26746	CP	%	109			75-125	Pass	
Zinc (filtered)	S20-Se26746	CP	%	111			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Total Suspended Solids Dried at 103–105°C	S20-Se26741	CP	mg/L	7.2	8.6	18	30%	Pass	

Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	340	390	13	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	340	390	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S20-Se26085	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Se26085	NCP	mg/L	0.001	0.001	2.0	30%	Pass	
Copper (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S20-Se26085	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S20-Se26085	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S20-Se26742	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S20-Se26742	CP	mg/L	0.001	0.002	3.0	30%	Pass	
Lead	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S20-Se26742	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se26742	CP	mg/L	0.002	0.002	<1	30%	Pass	
Zinc	S20-Se26742	CP	mg/L	0.019	0.017	8.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Se26745	CP	uS/cm	620	630	1.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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24468

CHAIN OF CUSTODY

JBS&G

PROJECT NO.:

PROJECT NAME:

DATE NEEDED BY:

LABORATORY BATCH NO.: 744324

SAMPLERS:

QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ..... @jbsg.com.au; (3) ..... @jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H.M	PAH (4,)	TRH	VOC	Nitrate/Nitrite Nitrogen (preferably Ammonia)	EC, pH, alkalinity	TSS	IFAs	OM, Iron	CEC,	Trip HM	Trip PAH	ASL H.M	Trip H.M	OCP/PCB	Asbestos	TYPE OF ASBESTOS ANALYSIS	NOTES:
						x	x	x	x					x	x					x	x	x	
													x								x	y	
																					x	y	
						x	x	x	x												x	x	
															•								
						x	x	x	x				x		x	x	x	y	x	x			
																					x	y	
						x	x	x	x											x	y	y	
																					x	y	
						x	x	x	x											x	x	y	
						x	y	x	y						x	x	x	x		x			
						x	x													x			
													x								x	y	
						x	x	x	y												x	y	
				+PFAS		x	x	x	x				x										
				+PFAS		x	x	x	y														

RELINQUISHED BY:	METHOD OF SHIPMENT	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Suzanne Ford	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 7/9/2020 4:04PM	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Eurofins	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic, J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd, VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd, ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

CHAIN OF CUSTODY

24469

JBS&G

PROJECT NO.:
PROJECT NAME:
DATE NEEDED BY:
LABORATORY BATCH NO.
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688.

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

~~Please log QA samples as part of this sample batch~~

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H+M	HAH (LL)	TPH	VOC	Nitrate/Nitrite	Nitrogen (speciated)	Ammonia	Ec, pH, alkalinity	TSS	PFAS	BTEX	OCP/PCB	8270A	VEP/VNA	NOTES
						X	X	X	X						X		X			*LL = low level for H2O samples
						X	X	X	X								X			
						X	X	X	X						X					
						X	X	X	X						X		X			
						X	X	X	X	X	X	X	X	X						
						X	X	X	X	X	X	X	X	X						
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X							
						X	X	X	X	X	X	X	X	X						
				+Pfas											X		X		X	
				3 NO PFAS													X		X	
				PFAS													X		X	
				PFAS											X					
				J+B																
TS/TB	Water			4x vial		X	X	X	X	X	X	X	X	X						

RELINQUISHED BY:

NAME: DATE:

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO.

RECEIVED BY:

NAME: Suzanne Lord
DATE: 16/9/2020 4:04pm
OF:

NAME: Eugene
DATE:
OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken

COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; F = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Form 013 - Chain of Custody - Generic

eurofins | Environment Testing

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Michael Swinfield
Project name:	PROSPECT DGI
Project ID:	58238
Turnaround time:	5 Day
Date/Time received	Sep 15, 2020 4:04 PM
Eurofins reference	744324

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 10.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples; JBSED06, JBSED08 and JBSED09 PFAS tub not received - PFAS analysis cancelled.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Michael Swinfield - mswinfield@jbsg.com.au.

eurofins | Environment Testing

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NATA # 1261 Site # 20794

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794			X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																										
Newcastle Laboratory																										
External Laboratory																										

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																					
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X	X	X			
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723															X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																						
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X			X			X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X			X			X	
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																						
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X			X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																						
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

Attention:	Michael Swinfield
Report	744324-AID
Project Name	PROSPECT DGI
Project ID	58238
Received Date	Sep 15, 2020
Date Reported	Sep 18, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PROSPECT DGI
Project ID 58238
Date Sampled Sep 11, 2020
Report 744324-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB110_0-0.1	20-Se26722	Sep 11, 2020	Approximate Sample 603g Sample consisted of: Brown coarse-grained clayey sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB111_0-0.1	20-Se26724	Sep 11, 2020	Approximate Sample 665g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB111_0.5-0.6	20-Se26725	Sep 11, 2020	Approximate Sample 467g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB113_0-0.1	20-Se26726	Sep 11, 2020	Approximate Sample 429g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB114_0-0.1	20-Se26727	Sep 11, 2020	Approximate Sample 414g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB114_0.5-0.6	20-Se26728	Sep 11, 2020	Approximate Sample 453g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB115_0-0.1	20-Se26729	Sep 11, 2020	Approximate Sample 541g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB115_0.4-0.5	20-Se26730	Sep 11, 2020	Approximate Sample 522g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JB117_0.4-0.5	20-Se26733	Sep 11, 2020	Approximate Sample 517g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB118_0-0.1	20-Se26734	Sep 11, 2020	Approximate Sample 416g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB59_0-0.1	20-Se26747	Sep 11, 2020	Approximate Sample 406g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB61_0-0.1	20-Se26748	Sep 11, 2020	Approximate Sample 517g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JB62_0-0.1	20-Se26749	Sep 11, 2020	Approximate Sample 542g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 15, 2020	Indefinite

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																																		
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No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																													
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X					X	X					X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																						X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																													
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X											X				X					X		X		X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X											X				X			X		X		X		X		X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																													
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X											X				X			X		X		X		X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																													
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X											X				X			X		X		X		X				

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 18, 2020
Priority: Overnight
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731												X				X			X		X		X		X					
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732												X				X			X				X							
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																					X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X											X				X					X		X		X					
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735												X				X					X		X		X			X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736												X				X					X		X		X					
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737												X				X			X		X		X		X					
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738												X				X			X		X		X		X					
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739												X				X					X		X		X					
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740												X				X			X		X		X		X					
20	JBSW04	Sep 11, 2020		Water	S20-Se26741			X						X		X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742			X						X		X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743			X						X		X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
23	JBSW07	Sep 11, 2020		Water	S20-Se26744			X						X		X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745			X						X		X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X						X		X			X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																					X			X	X			
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																					X			X				
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																					X			X				
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																											X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X						X		X			X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																												X	
32	TB	Sep 11, 2020		Water	S20-Se26753																		X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924												X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925												X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271							X					X	X		X			X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X		X		X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794									X																X		X	X	X			X			
Perth Laboratory - NATA Site # 23736																																			
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926														X		X														
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927														X		X														
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928				X																										
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929					X																									
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930					X																									
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931					X																									
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932					X																									
Test Counts						13	7	7	5	5	1	1	7	7	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se26725, S20-Se26726, S20-Se26727, S20-Se26728, S20-Se26734, S20-Se26747: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-L**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JB113_0-0.1**	**JB116_0-0.1**	**JB113_0-0.1**	**JB116_0-0.1**
Sample Matrix			**US Leachate**	**US Leachate**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-Se26924**	**S20-Se26925**	**S20-Se26926**	**S20-Se26927**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	-	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	-	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Total PAH*	0.001	mg/L	< 0.001	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	137	145	-	-
p-Terphenyl-d14 (surr.)	1	%	124	132	-	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.005	< 0.005
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0005	< 0.0005
Chromium	0.05	mg/L	< 0.05	< 0.05	0.56	0.35
Copper	0.05	mg/L	< 0.05	< 0.05	0.08	0.05
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	0.01
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.0001	< 0.0001
Nickel	0.01	mg/L	0.01	0.01	0.29	0.16
Zinc	0.05	mg/L	< 0.05	0.08	0.17	0.12
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	-	-
pH (initial)	0.1	pH Units	8.0	7.7	-	-
pH (off)	0.1	pH Units	6.2	5.7	-	-
pH (USA HCl addition)	0.1	pH Units	1.7	1.7	-	-

Client Sample ID			JB113_0-0.1	JB116_0-0.1	JB113_0-0.1	JB116_0-0.1
Sample Matrix			US Leachate	US Leachate	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			S20-Se26924	S20-Se26925	S20-Se26926	S20-Se26927
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	-	-	4.0	4.0
pH (initial)	0.1	pH Units	-	-	6.9	6.8
pH (Leachate fluid)	0.1	pH Units	-	-	5.9	5.9
pH (off)	0.1	pH Units	-	-	8.5	8.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 16, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Sep 17, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Sep 16, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Sep 16, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217	X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794			X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																										
Newcastle Laboratory																										
External Laboratory																										

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																					
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X	X	X			
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723															X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																						
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X			X			X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X			X			X	
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																						
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X			X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																						
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X			X				

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	128			70-130	Pass	
Anthracene	%	130			70-130	Pass	
Benzo(k)fluoranthene	%	130			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Pyrene	%	114			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	98			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	97			80-120	Pass	
Zinc	%	98			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26925	CP	%	104			75-125	Pass	
Cadmium	S20-Se26925	CP	%	94			75-125	Pass	
Chromium	S20-Se26925	CP	%	94			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	S20-Se26925	CP	%	91			75-125	Pass	
Lead	S20-Se26925	CP	%	96			75-125	Pass	
Mercury	S20-Se26925	CP	%	104			75-125	Pass	
Nickel	S20-Se26925	CP	%	92			75-125	Pass	
Zinc	S20-Se26925	CP	%	90			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26927	CP	%	86			75-125	Pass	
Cadmium	S20-Se26927	CP	%	89			75-125	Pass	
Chromium	S20-Se26927	CP	%	107			75-125	Pass	
Copper	S20-Se26927	CP	%	85			75-125	Pass	
Lead	S20-Se26927	CP	%	95			75-125	Pass	
Mercury	S20-Se26927	CP	%	101			75-125	Pass	
Nickel	S20-Se26927	CP	%	107			75-125	Pass	
Zinc	S20-Se26927	CP	%	83			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S20-Se26925	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26926	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S20-Se26926	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S20-Se26926	CP	mg/L	0.56	0.60	6.0	30%	Pass	
Copper	S20-Se26926	CP	mg/L	0.08	0.08	9.0	30%	Pass	
Lead	S20-Se26926	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S20-Se26926	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se26926	CP	mg/L	0.29	0.32	8.0	30%	Pass	
Zinc	S20-Se26926	CP	mg/L	0.17	0.16	5.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-S**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JB110_0-0.1**	**JB110_0.6-0.7**	**JB111_0.5-0.6**	**JB113_0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Se26722**	**S20-Se26723**	**S20-Se26725**	**S20-Se26726**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	92	-	79	86
Toluene-d8 (surr.)	1	%	91	-	89	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	-	71	67
p-Terphenyl-d14 (surr.)	1	%	93	-	99	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	95	-	-	131
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	89
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			JB110_0-0.1	JB110_0.6-0.7	JB111_0.5-0.6	JB113_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	95	-	-	131
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	89
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	57	-	-	-
Organic Matter %	0.01	% w/w	7.1	-	-	-
% Moisture	1	%	17	21	21	25
Heavy Metals						
Arsenic	2	mg/kg	2.3	-	3.1	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	84	-	110	330
Copper	5	mg/kg	43	-	41	49
Iron	20	mg/kg	43000	-	-	-
Lead	5	mg/kg	7.7	-	13	6.7
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	150	-	79	260
Zinc	5	mg/kg	72	-	67	63
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	42	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	82	-	83
13C5-PFPeA (surr.)	1	%	-	91	-	90
13C5-PFHxA (surr.)	1	%	-	92	-	94
13C4-PFHpA (surr.)	1	%	-	85	-	85
13C8-PFOA (surr.)	1	%	-	91	-	90
13C5-PFNA (surr.)	1	%	-	104	-	100
13C6-PFDA (surr.)	1	%	-	120	-	123
13C2-PFUnDA (surr.)	1	%	-	125	-	129
13C2-PFDoDA (surr.)	1	%	-	129	-	125
13C2-PFTeDA (surr.)	1	%	-	121	-	119
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	< 5

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26722	S20-Se26723	S20-Se26725	S20-Se26726
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	87	-	89
D3-N-MeFOSA (surr.)	1	%	-	105	-	112
D5-N-EtFOSA (surr.)	1	%	-	130	-	131
D7-N-MeFOSE (surr.)	1	%	-	82	-	82
D9-N-EtFOSE (surr.)	1	%	-	60	-	64
D5-N-EtFOSAA (surr.)	1	%	-	89	-	97
D3-N-MeFOSAA (surr.)	1	%	-	129	-	128
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	98	-	90
18O2-PFHxS (surr.)	1	%	-	93	-	94
13C8-PFOS (surr.)	1	%	-	109	-	107
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	72	-	67
13C2-6:2 FTSA (surr.)	1	%	-	77	-	92
13C2-8:2 FTSA (surr.)	1	%	-	143	-	156
13C2-10:2 FTSA (surr.)	1	%	-	159	-	153
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	89	87	88	-
Toluene-d8 (surr.)	1	%	92	91	91	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	78	74	80
p-Terphenyl-d14 (surr.)	1	%	97	101	96	97

Client Sample ID			JB114_0.5-0.6	JB115_0.4-0.5	JB116_0-0.1	JB117_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26728	S20-Se26730	S20-Se26731	S20-Se26732
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	76	128	71	95
Tetrachloro-m-xylene (surr.)	1	%	90	92	91	89
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	76	128	71	95
Tetrachloro-m-xylene (surr.)	1	%	90	92	91	89
% Moisture	1	%	23	21	22	19
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.5	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	240	240	210	97
Copper	5	mg/kg	32	32	42	39
Lead	5	mg/kg	7.8	6.9	9.4	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	170	150	140	78
Zinc	5	mg/kg	50	73	72	79

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	120	< 50
TRH C29-C36	50	mg/kg	-	64	230	< 50
TRH C10-C36 (Total)	50	mg/kg	-	64	350	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	90	82	85
Toluene-d8 (surr.)	1	%	-	91	91	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	230	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	230	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	82	79	81
p-Terphenyl-d14 (surr.)	1	%	-	96	111	97
% Moisture	1	%	43	19	66	45

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	4.4	2.7	7.7
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	98	63	66
Copper	5	mg/kg	-	50	49	41
Lead	5	mg/kg	-	23	16	29
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	66	64	64
Zinc	5	mg/kg	-	97	360	200
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	77	-	69	-
13C5-PFPeA (surr.)	1	%	88	-	79	-
13C5-PFHxA (surr.)	1	%	90	-	83	-
13C4-PFHpA (surr.)	1	%	86	-	78	-
13C8-PFOA (surr.)	1	%	87	-	79	-
13C5-PFNA (surr.)	1	%	101	-	83	-
13C6-PFDA (surr.)	1	%	125	-	100	-
13C2-PFUnDA (surr.)	1	%	119	-	97	-
13C2-PFDoDA (surr.)	1	%	121	-	101	-
13C2-PFTeDA (surr.)	1	%	126	-	95	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	90	-	75	-
D3-N-MeFOSA (surr.)	1	%	110	-	86	-
D5-N-EtFOSA (surr.)	1	%	133	-	98	-
D7-N-MeFOSE (surr.)	1	%	88	-	68	-
D9-N-EtFOSE (surr.)	1	%	68	-	62	-
D5-N-EtFOSAA (surr.)	1	%	93	-	83	-
D3-N-MeFOSAA (surr.)	1	%	127	-	97	-

Client Sample ID			JB117_0.4-0.5	JB118_0-0.1	JBSED04	JBSED05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26733	S20-Se26734	S20-Se26735	S20-Se26736
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	98	-	84	-
18O2-PFHxS (surr.)	1	%	103	-	89	-
13C8-PFOS (surr.)	1	%	108	-	91	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	68	-	81	-
13C2-6:2 FTSA (surr.)	1	%	90	-	131	-
13C2-8:2 FTSA (surr.)	1	%	162	-	137	-
13C2-10:2 FTSA (surr.)	1	%	153	-	122	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	90	< 50	110
TRH C29-C36	50	mg/kg	64	230	< 50	100
TRH C10-C36 (Total)	50	mg/kg	64	320	< 50	210
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	81	81	76	76
Toluene-d8 (surr.)	1	%	92	91	90	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	200	< 100	120
TRH >C34-C40	100	mg/kg	< 100	110	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	310	< 100	120
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	71	77	79
p-Terphenyl-d14 (surr.)	1	%	109	100	104	119
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	0.07	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			JBSED06	JBSED07	JBSED08	JBSED09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Se26737	S20-Se26738	S20-Se26739	S20-Se26740
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	126	90	-	142
Tetrachloro-m-xylene (surr.)	1	%	103	87	-	109
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	126	90	-	142
Tetrachloro-m-xylene (surr.)	1	%	103	87	-	109
% Moisture	1	%	49	72	57	75
Heavy Metals						
Arsenic	2	mg/kg	5.0	< 2	3.1	20
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	53	40	49	70
Copper	5	mg/kg	34	45	36	190
Lead	5	mg/kg	20	19	20	53
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.2
Nickel	5	mg/kg	41	45	46	41
Zinc	5	mg/kg	84	310	110	370

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	60
TRH C29-C36	50	mg/kg	< 50	120	210
TRH C10-C36 (Total)	50	mg/kg	< 50	120	270

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	140	230
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	140	230
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	87	88
p-Terphenyl-d14 (surr.)	1	%	108	112	116
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	92	109	141
Tetrachloro-m-xylene (surr.)	1	%	102	95	98
Polychlorinated Biphenyls					
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	92	109	141
Tetrachloro-m-xylene (surr.)	1	%	102	95	98
% Moisture	1	%	29	24	16
Heavy Metals					
Arsenic	2	mg/kg	5.6	5.8	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	230	66	160
Copper	5	mg/kg	49	170	47
Lead	5	mg/kg	28	20	28
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	99	75	110
Zinc	5	mg/kg	86	120	110
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-
13C4-PFBA (surr.)	1	%	84	-	-
13C5-PFPeA (surr.)	1	%	94	-	-
13C5-PFHxA (surr.)	1	%	102	-	-
13C4-PFHpA (surr.)	1	%	94	-	-
13C8-PFOA (surr.)	1	%	97	-	-

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
13C5-PFNA (surr.)	1	%	107	-	-
13C6-PFDA (surr.)	1	%	123	-	-
13C2-PFUnDA (surr.)	1	%	116	-	-
13C2-PFDoDA (surr.)	1	%	119	-	-
13C2-PFTeDA (surr.)	1	%	114	-	-
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-
13C8-FOSA (surr.)	1	%	91	-	-
D3-N-MeFOSA (surr.)	1	%	110	-	-
D5-N-EtFOSA (surr.)	1	%	128	-	-
D7-N-MeFOSE (surr.)	1	%	82	-	-
D9-N-EtFOSE (surr.)	1	%	56	-	-
D5-N-EtFOSAA (surr.)	1	%	98	-	-
D3-N-MeFOSAA (surr.)	1	%	109	-	-
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-
13C3-PFBS (surr.)	1	%	100	-	-
18O2-PFHxS (surr.)	1	%	100	-	-
13C8-PFOS (surr.)	1	%	107	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	96	-	-
13C2-6:2 FTSA (surr.)	1	%	117	-	-
13C2-8:2 FTSA (surr.)	1	%	133	-	-
13C2-10:2 FTSA (surr.)	1	%	168	-	-

Client Sample ID			JB59_0-0.1	JB61_0-0.1	JB62_0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Se26747	S20-Se26748	S20-Se26749
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit			
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	57	86	88

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 17, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 17, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 16, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Sep 16, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Sep 16, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organic Matter %	Melbourne	Sep 18, 2020	5 Days
- Method: APHA 2540E Fixed and Volatile Solids Ignited at 550C			
Heavy Metals	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Sep 17, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Sep 18, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Sydney	Sep 15, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 17, 2020	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
Newcastle Laboratory																															
External Laboratory																															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																										
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																			X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																										
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X					X		X		X					
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X		X		X		X			X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																										
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X		X		X		X					
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																										
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X		X		X		X					

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PROSPECT DGI
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Order No.:
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Phone: 02 8245 0300
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Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Sydney
NSW 2000

Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	81			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	103			70-130	Pass	
1.1.1-Trichloroethane	%	103			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2-Dichloroethane	%	110			70-130	Pass	
Benzene	%	108			70-130	Pass	
Ethylbenzene	%	112			70-130	Pass	
m&p-Xylenes	%	115			70-130	Pass	
o-Xylene	%	114			70-130	Pass	
Toluene	%	113			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Xylenes - Total*	%	115			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	103			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	113			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	86			70-130	Pass	
Acenaphthylene	%	70			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	74			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	77			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	86			70-130	Pass	
Dibenz(a.h)anthracene	%	71			70-130	Pass	
Fluoranthene	%	72			70-130	Pass	
Fluorene	%	78			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	74			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	85			70-130	Pass	
4.4'-DDE	%	84			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-BHC	%	88			70-130	Pass	
Aldrin	%	82			70-130	Pass	
b-BHC	%	87			70-130	Pass	
d-BHC	%	88			70-130	Pass	
Dieldrin	%	92			70-130	Pass	
Endosulfan I	%	79			70-130	Pass	
Endosulfan II	%	87			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	87			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	87			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	85			70-130	Pass	
Heptachlor epoxide	%	73			70-130	Pass	
Hexachlorobenzene	%	73			70-130	Pass	
Methoxychlor	%	82			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	104			70-130	Pass	
Aroclor-1260	%	128			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Cadmium	%	92			80-120	Pass	
Chromium	%	98			80-120	Pass	
Copper	%	101			80-120	Pass	
Iron	%	99			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	109			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	91			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	93			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	88			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	96			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	88			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	82			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	78			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	93			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	70			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	81			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S20-Se17688	NCP	%	77			70-130	Pass	
1.1.1-Trichloroethane	S20-Se17688	NCP	%	77			70-130	Pass	
1.2-Dichlorobenzene	S20-Se17688	NCP	%	80			70-130	Pass	
1.2-Dichloroethane	S20-Se17688	NCP	%	82			70-130	Pass	
Benzene	S20-Se16523	NCP	%	82			70-130	Pass	
Ethylbenzene	S20-Se16523	NCP	%	82			70-130	Pass	
m&p-Xylenes	S20-Se16523	NCP	%	84			70-130	Pass	
o-Xylene	S20-Se16523	NCP	%	84			70-130	Pass	
Toluene	S20-Se16523	NCP	%	83			70-130	Pass	
Trichloroethene	S20-Se17688	NCP	%	78			70-130	Pass	
Xylenes - Total*	S20-Se16523	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se16523	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se26722	CP	%	87			70-130	Pass	
Acenaphthylene	S20-Se26722	CP	%	75			70-130	Pass	
Anthracene	S20-Se26722	CP	%	79			70-130	Pass	
Benz(a)anthracene	S20-Se26722	CP	%	78			70-130	Pass	
Benzo(a)pyrene	S20-Se26722	CP	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se26722	CP	%	75			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se26722	CP	%	92			70-130	Pass	
Benzo(k)fluoranthene	S20-Se26722	CP	%	77			70-130	Pass	
Chrysene	S20-Se26722	CP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se26722	CP	%	80			70-130	Pass	
Fluoranthene	S20-Se26722	CP	%	75			70-130	Pass	
Fluorene	S20-Se26722	CP	%	81			70-130	Pass	
Naphthalene	S20-Se26722	CP	%	82			70-130	Pass	
Phenanthrene	S20-Se26722	CP	%	80			70-130	Pass	
Pyrene	S20-Se26722	CP	%	78			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S20-Se25947	NCP	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	S20-Se25947	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	S20-Se28523	NCP	%	100			75-125	Pass	
Nickel	S20-Se28523	NCP	%	103			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se26726	CP	%	91			75-125	Pass	
Cadmium	S20-Se26726	CP	%	98			75-125	Pass	
Chromium	S20-Se26726	CP	%	123			75-125	Pass	
Copper	S20-Se26726	CP	%	99			75-125	Pass	
Lead	S20-Se26726	CP	%	112			75-125	Pass	
Mercury	S20-Se26726	CP	%	114			75-125	Pass	
Zinc	S20-Se26726	CP	%	105			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26726	CP	%	66			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26726	CP	%	69			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26726	CP	%	69			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26726	CP	%	67			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26726	CP	%	70			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26726	CP	%	68			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26726	CP	%	70			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26726	CP	%	54			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26726	CP	%	68			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S20-Se26726	CP	%	66			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26726	CP	%	66			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26726	CP	%	72			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26726	CP	%	68			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26726	CP	%	63			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26726	CP	%	64			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26726	CP	%	69			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se26726	CP	%	58			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26726	CP	%	64			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26726	CP	%	71			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26726	CP	%	64			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26726	CP	%	62			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26726	CP	%	75			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26726	CP	%	61			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26726	CP	%	76			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26726	CP	%	67			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26726	CP	%	58			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26726	CP	%	57			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26726	CP	%	68			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Se26734	CP	%	124			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se26737	CP	%	90			70-130	Pass	
Acenaphthylene	S20-Se26737	CP	%	76			70-130	Pass	
Anthracene	S20-Se26737	CP	%	88			70-130	Pass	
Benz(a)anthracene	S20-Se26737	CP	%	82			70-130	Pass	
Benzo(a)pyrene	S20-Se26737	CP	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se26737	CP	%	75			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se26737	CP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S20-Se26737	CP	%	88			70-130	Pass	
Chrysene	S20-Se26737	CP	%	94			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se26737	CP	%	86			70-130	Pass	
Fluoranthene	S20-Se26737	CP	%	82			70-130	Pass	
Fluorene	S20-Se26737	CP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26737	CP	%	72			70-130	Pass	
Naphthalene	S20-Se26737	CP	%	79			70-130	Pass	
Phenanthrene	S20-Se26737	CP	%	84			70-130	Pass	
Pyrene	S20-Se26737	CP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se26737	CP	%	75			70-130	Pass	
4.4'-DDD	S20-Se26737	CP	%	85			70-130	Pass	
4.4'-DDE	S20-Se26737	CP	%	79			70-130	Pass	
4.4'-DDT	S20-Se26737	CP	%	90			70-130	Pass	
a-BHC	S20-Se26737	CP	%	83			70-130	Pass	
Aldrin	S20-Se26737	CP	%	71			70-130	Pass	
b-BHC	S20-Se26737	CP	%	86			70-130	Pass	
d-BHC	S20-Se26737	CP	%	85			70-130	Pass	
Dieldrin	S20-Se26737	CP	%	90			70-130	Pass	
Endosulfan I	S20-Se26737	CP	%	89			70-130	Pass	
Endosulfan II	S20-Se26737	CP	%	73			70-130	Pass	
Endosulfan sulphate	S20-Se26737	CP	%	81			70-130	Pass	
Endrin	S20-Se26737	CP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S20-Se26737	CP	%	74			70-130	Pass	
g-BHC (Lindane)	S20-Se26737	CP	%	89			70-130	Pass	
Heptachlor	S20-Se26737	CP	%	95			70-130	Pass	
Hexachlorobenzene	S20-Se26737	CP	%	83			70-130	Pass	
Methoxychlor	S20-Se26737	CP	%	86			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-Se26737	CP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se22114	NCP	%	96			70-130	Pass	
TRH C10-C14	M20-Se28375	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S20-Se22114	NCP	%	102			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se17548	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S20-Se17548	NCP	mg/kg	0.5	< 0.5	200	30%	Fail	Q15
Chloroethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
cis-1.2-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	S20-Se17548	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S20-Se17548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	S20-Se17548	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se17548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se17548	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S20-Se26722	CP	uS/cm	57	76	28	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26723	CP	%	21	22	4.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26723	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26723	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26725	CP	mg/kg	3.1	3.1	2.0	30%	Pass	
Cadmium	S20-Se26725	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se26725	CP	mg/kg	110	110	<1	30%	Pass	
Copper	S20-Se26725	CP	mg/kg	41	55	30	30%	Pass	
Lead	S20-Se26725	CP	mg/kg	13	14	13	30%	Pass	
Mercury	S20-Se26725	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Se26725	CP	mg/kg	79	90	12	30%	Pass	
Zinc	S20-Se26725	CP	mg/kg	67	82	20	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26726	CP	%	25	23	7.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Se26731	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Se26731	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Se26731	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Se26731	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se26731	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se26731	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se26731	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se26731	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se26731	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26738	CP	mg/kg	< 2	3.5	54	30%	Fail	Q15
Cadmium	S20-Se26738	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se26738	CP	mg/kg	40	58	38	30%	Fail	Q15
Copper	S20-Se26738	CP	mg/kg	45	61	29	30%	Pass	
Iron	S20-Se26738	CP	mg/kg	21000	32000	39	30%	Fail	Q15
Lead	S20-Se26738	CP	mg/kg	19	24	25	30%	Pass	
Mercury	S20-Se26738	CP	mg/kg	0.1	0.1	4.0	30%	Pass	
Nickel	S20-Se26738	CP	mg/kg	45	61	31	30%	Fail	Q15
Zinc	S20-Se26738	CP	mg/kg	310	350	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se26739	CP	%	57	53	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Michael Swinfield**

Report **744324-W**
Project name PROSPECT DGI
Project ID 58238
Received Date Sep 15, 2020

Client Sample ID			**JBSW04**	**JBSW05**	**JBSW06**	**JBSW07**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se26741**	**S20-Se26742**	**S20-Se26743**	**S20-Se26744**
Date Sampled			**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**	**Sep 11, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	81	77	84	74
Toluene-d8 (surr.)	1	%	98	87	95	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	50	52	52	54
p-Terphenyl-d14 (surr.)	1	%	53	54	52	52
Ammonia (as N)	0.01	mg/L	0.03	0.02	0.01	0.03
Conductivity (at 25°C)	10	uS/cm	250	270	270	420
Nitrate & Nitrite (as N)	0.05	mg/L	0.16	0.06	0.11	0.13
Nitrate (as N)	0.02	mg/L	0.15	0.05	0.10	0.12
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Organic Nitrogen (as N)*	0.2	mg/L	0.47	< 0.2	1.49	0.37
pH (at 25 °C)	0.1	pH Units	7.6	7.7	7.5	8.2
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.5	0.2	1.5	0.4
Total Nitrogen (as N)*	0.2	mg/L	0.66	0.26	1.61	0.53
Total Suspended Solids Dried at 103–105°C	5	mg/L	7.2	6.4	8.2	5.8
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	94	85	92	160
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	94	85	92	160
Heavy Metals						
Arsenic	0.001	mg/L	-	< 0.001	-	-
Arsenic (filtered)	0.001	mg/L	< 0.001	-	< 0.001	0.001
Cadmium	0.0002	mg/L	-	< 0.0002	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	< 0.0002	< 0.0002
Chromium	0.001	mg/L	-	< 0.001	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	-	< 0.001	0.002
Copper	0.001	mg/L	-	0.001	-	-
Copper (filtered)	0.001	mg/L	0.003	-	0.002	0.003
Lead	0.001	mg/L	-	< 0.001	-	-
Lead (filtered)	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Mercury	0.0001	mg/L	-	< 0.0001	-	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	< 0.0001	< 0.0001
Nickel	0.001	mg/L	-	0.002	-	-
Nickel (filtered)	0.001	mg/L	0.003	-	< 0.001	0.005
Zinc	0.005	mg/L	-	0.019	-	-
Zinc (filtered)	0.005	mg/L	0.048	-	0.014	0.073
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C4-PFBA (surr.)	1	%	86	97	-	-
13C5-PFPeA (surr.)	1	%	97	99	-	-
13C5-PFHxA (surr.)	1	%	97	101	-	-
13C4-PFHpA (surr.)	1	%	125	133	-	-
13C8-PFOA (surr.)	1	%	130	140	-	-
13C5-PFNA (surr.)	1	%	127	137	-	-
13C6-PFDA (surr.)	1	%	141	150	-	-
13C2-PFUnDA (surr.)	1	%	116	125	-	-
13C2-PFDoDA (surr.)	1	%	111	106	-	-
13C2-PFTeDA (surr.)	1	%	56	39	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
13C8-FOSA (surr.)	1	%	95	102	-	-
D3-N-MeFOSA (surr.)	1	%	55	47	-	-
D5-N-EtFOSA (surr.)	1	%	58	44	-	-
D7-N-MeFOSE (surr.)	1	%	68	71	-	-
D9-N-EtFOSE (surr.)	1	%	73	74	-	-
D5-N-EtFOSAA (surr.)	1	%	81	70	-	-
D3-N-MeFOSAA (surr.)	1	%	85	79	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	-
13C3-PFBS (surr.)	1	%	101	110	-	-
18O2-PFHxS (surr.)	1	%	114	124	-	-
13C8-PFOS (surr.)	1	%	109	119	-	-

Client Sample ID			JBSW04	JBSW05	JBSW06	JBSW07
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26741	S20-Se26742	S20-Se26743	S20-Se26744
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	-
13C2-4:2 FTSA (surr.)	1	%	77	88	-	-
13C2-6:2 FTSA (surr.)	1	%	136	155	-	-
13C2-8:2 FTSA (surr.)	1	%	104	121	-	-
13C2-10:2 FTSA (surr.)	1	%	93	94	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	-

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	81	79	-	75
Toluene-d8 (surr.)	1	%	95	87	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-	< 0.1

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	-	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	52	54	-	50
p-Terphenyl-d14 (surr.)	1	%	54	52	-	51
Ammonia (as N)	0.01	mg/L	0.03	< 0.01	-	< 0.01
Conductivity (at 25°C)	10	uS/cm	620	6700	-	< 10
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	0.10	-	< 0.05
Nitrate (as N)	0.02	mg/L	< 0.02	0.06	-	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	0.04	-	< 0.02
Organic Nitrogen (as N)*	0.2	mg/L	1.57	< 0.2	-	< 0.2
pH (at 25 °C)	0.1	pH Units	7.7	7.9	-	3.9
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	1.6	< 0.2	-	< 0.2
Total Nitrogen (as N)*	0.2	mg/L	1.6	< 0.2	-	< 0.2
Total Suspended Solids Dried at 103–105°C	5	mg/L	160	68	-	< 1
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	260	1000	-	< 20
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	-	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	-	< 20
Total Alkalinity (as CaCO3)	20	mg/L	260	1000	-	< 20
Heavy Metals						
Arsenic	0.001	mg/L	-	-	-	< 0.001
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Cadmium	0.0002	mg/L	-	-	-	< 0.0002
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium	0.001	mg/L	-	-	-	< 0.001
Chromium (filtered)	0.001	mg/L	< 0.001	0.001	-	-
Copper	0.001	mg/L	-	-	-	< 0.001
Copper (filtered)	0.001	mg/L	0.005	0.003	-	-
Lead	0.001	mg/L	-	-	-	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
Mercury	0.0001	mg/L	-	-	-	< 0.0001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Nickel	0.001	mg/L	-	-	-	< 0.001

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel (filtered)	0.001	mg/L	0.001	0.004	-	-
Zinc	0.005	mg/L	-	-	-	< 0.005
Zinc (filtered)	0.005	mg/L	0.016	0.047	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	-	100	95	124
13C5-PFPeA (surr.)	1	%	-	105	98	133
13C5-PFHxA (surr.)	1	%	-	108	104	122
13C4-PFHpA (surr.)	1	%	-	136	132	156
13C8-PFOA (surr.)	1	%	-	134	136	140
13C5-PFNA (surr.)	1	%	-	139	136	142
13C6-PFDA (surr.)	1	%	-	154	147	149
13C2-PFUnDA (surr.)	1	%	-	143	118	131
13C2-PFDoDA (surr.)	1	%	-	139	98	125
13C2-PFTeDA (surr.)	1	%	-	71	35	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	-	105	99	86
D3-N-MeFOSA (surr.)	1	%	-	71	57	65
D5-N-EtFOSA (surr.)	1	%	-	72	56	63
D7-N-MeFOSE (surr.)	1	%	-	86	73	81
D9-N-EtFOSE (surr.)	1	%	-	92	75	83
D5-N-EtFOSAA (surr.)	1	%	-	74	58	62
D3-N-MeFOSAA (surr.)	1	%	-	74	66	64
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01

Client Sample ID			JBSW08	MW07	QC20200911-1	RINSATE
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se26745	S20-Se26746	S20-Se26750	S20-Se26751
Date Sampled			Sep 11, 2020	Sep 11, 2020	Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	-	105	112	113
18O2-PFHxS (surr.)	1	%	-	119	124	115
13C8-PFOS (surr.)	1	%	-	118	114	122
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	79	87	92
13C2-6:2 FTSA (surr.)	1	%	-	132	158	97
13C2-8:2 FTSA (surr.)	1	%	-	94	116	81
13C2-10:2 FTSA (surr.)	1	%	-	104	84	78
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1	< 0.1	< 0.1

Client Sample ID			TS	TB
Sample Matrix			Water	Water
Eurofins Sample No.			S20-Se26752	S20-Se26753
Date Sampled			Sep 11, 2020	Sep 11, 2020
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	120	-
Ethylbenzene	1	%	96	-
m&p-Xylenes	1	%	100	-
o-Xylene	1	%	94	-
Toluene	1	%	110	-
Xylenes - Total	1	%	97	-
4-Bromofluorobenzene (surr.)	1	%	98	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	98

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 15, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 17, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Sep 16, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Sep 15, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Sep 15, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Conductivity (at 25°C)	Melbourne	Sep 16, 2020	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Melbourne	Sep 16, 2020	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Total Suspended Solids Dried at 103–105°C	Melbourne	Sep 16, 2020	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Alkalinity (speciated)	Melbourne	Sep 17, 2020	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Metals M8 filtered	Sydney	Sep 15, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Nitrogens (speciated)			
Ammonia (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate & Nitrite (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrate (as N)	Melbourne	Sep 17, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Sep 17, 2020	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Sep 15, 2020	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Sep 17, 2020	7 Days
- Method: LTM-INO-4310 TKN in Waters & Soils by FIA			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 17, 2020	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
Newcastle Laboratory																															
External Laboratory																															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																										
1	JB110_0-0.1	Sep 11, 2020		Soil	S20-Se26722	X				X	X			X				X			X		X		X	X	X				
2	JB110_0.6-0.7	Sep 11, 2020		Soil	S20-Se26723																			X						X		
3	JB111_0-0.1	Sep 11, 2020		Soil	S20-Se26724	X																										
4	JB111_0.5-0.6	Sep 11, 2020		Soil	S20-Se26725	X								X				X					X		X		X				
5	JB113_0-0.1	Sep 11, 2020		Soil	S20-Se26726	X								X				X			X		X		X		X		X		
6	JB114_0-0.1	Sep 11, 2020		Soil	S20-Se26727	X																										
7	JB114_0.5-0.6	Sep 11, 2020		Soil	S20-Se26728	X								X				X			X		X		X		X				
8	JB115_0-0.1	Sep 11, 2020		Soil	S20-Se26729	X																										
9	JB115_0.4-0.5	Sep 11, 2020		Soil	S20-Se26730	X								X				X			X		X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
10	JB116_0-0.1	Sep 11, 2020		Soil	S20-Se26731									X				X			X		X		X		X				
11	JB117_0-0.1	Sep 11, 2020		Soil	S20-Se26732									X				X			X				X						
12	JB117_0.4-0.5	Sep 11, 2020		Soil	S20-Se26733	X																		X						X		
13	JB118_0-0.1	Sep 11, 2020		Soil	S20-Se26734	X								X				X					X		X		X				
14	JBSED04	Sep 11, 2020		Soil	S20-Se26735									X				X					X		X		X		X		
15	JBSED05	Sep 11, 2020		Soil	S20-Se26736									X				X					X		X		X				
16	JBSED06	Sep 11, 2020		Soil	S20-Se26737									X				X			X		X		X		X				
17	JBSED07	Sep 11, 2020		Soil	S20-Se26738									X				X			X		X		X		X				
18	JBSED08	Sep 11, 2020		Soil	S20-Se26739									X				X					X		X		X				
19	JBSED09	Sep 11, 2020		Soil	S20-Se26740									X				X			X		X		X		X				
20	JBSW04	Sep 11, 2020		Water	S20-Se26741		X					X	X		X				X			X	X				X		X		X
21	JBSW05	Sep 11, 2020		Water	S20-Se26742		X					X	X		X			X				X	X				X		X		X
22	JBSW06	Sep 11, 2020		Water	S20-Se26743		X					X	X		X				X			X	X				X				X

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Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X									X							X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
23	JBSW07	Sep 11, 2020		Water	S20-Se26744		X					X	X		X				X			X	X				X				X
24	JBSW08	Sep 11, 2020		Water	S20-Se26745		X					X	X		X				X			X	X				X				X
25	MW07	Sep 11, 2020		Water	S20-Se26746		X					X	X		X				X			X	X				X		X		X
26	JB59_0-0.1	Sep 11, 2020		Soil	S20-Se26747	X																			X			X	X		
27	JB61_0-0.1	Sep 11, 2020		Soil	S20-Se26748	X																			X			X			
28	JB62_0-0.1	Sep 11, 2020		Soil	S20-Se26749	X																			X			X			
29	QC20200911-1	Sep 11, 2020		Water	S20-Se26750																								X		
30	RINSATE	Sep 11, 2020		Water	S20-Se26751		X					X	X		X			X				X	X				X		X		X
31	TS	Sep 11, 2020		Water	S20-Se26752																									X	
32	TB	Sep 11, 2020		Water	S20-Se26753															X											
33	JB113_0-0.1	Sep 11, 2020		US Leachate	S20-Se26924									X			X	X													
34	JB116_0-0.1	Sep 11, 2020		US Leachate	S20-Se26925									X			X	X													

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Project Name: PROSPECT DGI
Project ID: 58238

Order No.:
Report #: 744324
Phone: 02 8245 0300
Fax:

Received: Sep 15, 2020 4:04 PM
Due: Sep 17, 2020
Priority: 2 Day
Contact Name: Michael Swinfield

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Conductivity (at 25°C)	HOLD	HOLD	Iron	Organic Matter %	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Polycyclic Aromatic Hydrocarbons	Alkalinity (speciated)	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	Metals M8 filtered	BTEX	Suite B13: OCP/PCB	Nitrogens (speciated)	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X				X							X		X	X	X	X	X			X
Sydney Laboratory - NATA Site # 18217						X	X		X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	
Brisbane Laboratory - NATA Site # 20794								X														X		X	X	X			X		
Perth Laboratory - NATA Site # 23736																															
35	JB113_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26926											X		X													
36	JB116_0-0.1	Sep 11, 2020		AUS Leachate - Reagent Water	S20-Se26927											X		X													
37	JB112_0-0.1	Sep 11, 2020		Soil	S20-Se26928			X																							
38	JB112_0.4-0.5	Sep 11, 2020		Soil	S20-Se26929				X																						
39	JB113_0.4-0.5	Sep 11, 2020		Soil	S20-Se26930				X																						
40	JB116_0.4-0.5	Sep 11, 2020		Soil	S20-Se26931				X																						
41	QC20200911-2	Sep 11, 2020		Soil	S20-Se26932				X																						
Test Counts						13	7	5	5	1	1	7	7	16	7	2	2	20	5	1	9	7	20	19	19	1	20	3	10	1	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Total Suspended Solids Dried at 103–105°C	mg/L	< 5			5	Pass	
Method Blank							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	102			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	127			70-130	Pass	
1.1.1-Trichloroethane	%	100			70-130	Pass	
1.2-Dichlorobenzene	%	106			70-130	Pass	
1.2-Dichloroethane	%	116			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	%	102			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Toluene	%	104			70-130	Pass	
Trichloroethene	%	97			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	97			70-130	Pass	
TRH >C10-C16	%	100			70-130	Pass	
LCS - % Recovery							
Total Kjeldahl Nitrogen (as N)	%	100			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	%	96			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	103			70-130	Pass	
Total Alkalinity (as CaCO3)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Arsenic (filtered)	%	102			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Cadmium (filtered)	%	100			80-120	Pass	
Chromium	%	95			80-120	Pass	
Chromium (filtered)	%	99			80-120	Pass	
Copper	%	95			80-120	Pass	
Copper (filtered)	%	99			80-120	Pass	
Lead	%	97			80-120	Pass	
Lead (filtered)	%	99			80-120	Pass	
Mercury	%	104			80-120	Pass	
Mercury (filtered)	%	115			80-120	Pass	
Nickel	%	95			80-120	Pass	
Nickel (filtered)	%	101			80-120	Pass	
Zinc	%	94			80-120	Pass	
Zinc (filtered)	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	110			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	112			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	112			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	125			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	117			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	95			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	129			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	100			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	130			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	86			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	74			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	91			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	88			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Total Suspended Solids Dried at 103–105°C	S20-Se26741	CP	%	106			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se25658	NCP	%	97			75-125	Pass	
Cadmium	S20-Se25658	NCP	%	93			75-125	Pass	
Chromium	S20-Se25658	NCP	%	94			75-125	Pass	
Copper	S20-Se25658	NCP	%	91			75-125	Pass	
Lead	S20-Se25658	NCP	%	93			75-125	Pass	
Mercury	S20-Se25658	NCP	%	101			75-125	Pass	
Nickel	S20-Se25658	NCP	%	92			75-125	Pass	
Zinc	S20-Se25658	NCP	%	91			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S20-Se26742	CP	%	114			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26742	CP	%	109			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26742	CP	%	111			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26742	CP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26742	CP	%	126			50-150	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26742	CP	%	108			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26742	CP	%	83			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26742	CP	%	96			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26742	CP	%	117			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26742	CP	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26742	CP	%	82			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	S20-Se26742	CP	%	122			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26742	CP	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26742	CP	%	65			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26742	CP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26742	CP	%	82			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26742	CP	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26742	CP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S20-Se26742	CP	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26742	CP	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26742	CP	%	119			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26742	CP	%	77			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26742	CP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26742	CP	%	82			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26742	CP	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26742	CP	%	76			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26742	CP	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26742	CP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26742	CP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26742	CP	%	87			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S20-Se26746	CP	%	125			75-125	Pass	
Cadmium (filtered)	S20-Se26746	CP	%	111			75-125	Pass	
Chromium (filtered)	S20-Se26746	CP	%	113			75-125	Pass	
Copper (filtered)	S20-Se26746	CP	%	107			75-125	Pass	
Lead (filtered)	S20-Se26746	CP	%	110			75-125	Pass	
Mercury (filtered)	S20-Se26746	CP	%	114			75-125	Pass	
Nickel (filtered)	S20-Se26746	CP	%	109			75-125	Pass	
Zinc (filtered)	S20-Se26746	CP	%	111			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Total Suspended Solids Dried at 103–105°C	S20-Se26741	CP	mg/L	7.2	8.6	18	30%	Pass	

Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	340	390	13	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S20-Se25839	NCP	mg/L	340	390	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S20-Se26085	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Se26085	NCP	mg/L	0.001	0.001	2.0	30%	Pass	
Copper (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S20-Se26085	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S20-Se26085	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S20-Se26085	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26741	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26741	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S20-Se26742	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S20-Se26742	CP	mg/L	0.001	0.002	3.0	30%	Pass	
Lead	S20-Se26742	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S20-Se26742	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se26742	CP	mg/L	0.002	0.002	<1	30%	Pass	
Zinc	S20-Se26742	CP	mg/L	0.019	0.017	8.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Se26745	CP	uS/cm	620	630	1.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S20-Se26746	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S20-Se26746	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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#AU04_Enviro_Sample_NSW

To: Ursula Long
Subject: RE: PLE Additional Analysis

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Friday, 18 September 2020 10:22 AM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: PLE Additional Analysis

EXTERNAL EMAIL*

Ursula,

Can I please request the following on 24hr TAT:

ASLP and TCLP for Heavy Metals on:

- Lab report: 742039,
  - Sample JB24 2-2.1
  - Sample JB84 1.4-1.5
- Lab report 742668
  - Sample JBSED-01
- Lab report 742676
  - Sample JB41 0.1-0.2

TCLP for B(a)P

- Lab report 742039
  - Sample JB83 0.1-0.2

Thanks!
Chris

Chris Kauffman | Environmental Consultant | JBS&G
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Contaminated Land | Groundwater Remediation | Environmental Approvals | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Stakeholder and Risk Management

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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	ADDITIONAL - PLE
Project ID:	58238
Turnaround time:	1 Day
Date/Time received	Sep 18, 2020 10:22 AM
Eurofins reference	745000

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 5.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL - PLE
Project ID: 58238

Order No.:
Report #: 745000
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 10:22 AM
Due: Sep 21, 2020
Priority: 1 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	AUS Leaching Procedure	USA Leaching Procedure	Metals M8
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
Newcastle Laboratory									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	JB24 2-2.1	Aug 30, 2020		US Leachate	S20-Se32379			X	X
2	JB24 2-2.1	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32380		X		X
3	JB84 1.4-1.5	Aug 30, 2020		US Leachate	S20-Se32381			X	X
4	JB84 1.4-1.5	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32382		X		X
5	JBSED-01	Aug 30, 2020		US Leachate	S20-Se32383			X	X
6	JBSED-01	Aug 30, 2020		AUS Leachate - Reagent	S20-Se32384		X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
				Water					
7	JB41 0.1-0.2	Aug 30, 2020		US Leachate	S20-Se32385			X	X
8	JB41 0.1-0.2	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32386		X		X
9	JB83 0.1-0.2	Aug 30, 2020		US Leachate	S20-Se32387	X		X	
Test Counts						1	4	5	8

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745000-L**
Project name ADDITIONAL - PLE
Project ID 58238
Received Date Sep 18, 2020

Client Sample ID			**JB24 2-2.1**	**JB24 2-2.1**	**JB84 1.4-1.5**	**JB84 1.4-1.5**
Sample Matrix			**US Leachate**	**AUS Leachate - Reagent Water**	**US Leachate**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-Se32379**	**S20-Se32380**	**S20-Se32381**	**S20-Se32382**
Date Sampled			**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.005	< 0.01	< 0.005
Cadmium	0.005	mg/L	< 0.005	< 0.0005	< 0.005	< 0.0005
Chromium	0.05	mg/L	< 0.05	0.04	< 0.05	1.5
Copper	0.05	mg/L	< 0.05	0.04	< 0.05	0.09
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.001	mg/L	< 0.001	< 0.0001	< 0.001	< 0.0001
Nickel	0.01	mg/L	0.03	0.31	0.03	0.70
Zinc	0.05	mg/L	< 0.05	0.08	< 0.05	0.18
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	-	1.0	-
pH (initial)	0.1	pH Units	6.7	-	6.7	-
pH (off)	0.1	pH Units	5.1	-	5.1	-
pH (USA HCl addition)	0.1	pH Units	1.7	-	1.7	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	-	4.0	-	4.0
pH (initial)	0.1	pH Units	-	7.4	-	7.8
pH (Leachate fluid)	0.1	pH Units	-	6.1	-	6.1
pH (off)	0.1	pH Units	-	7.4	-	7.2

Client Sample ID			**JBSED-01**	**JBSED-01**	**JB41 0.1-0.2**	**JB41 0.1-0.2**
Sample Matrix			**US Leachate**	**AUS Leachate - Reagent Water**	**US Leachate**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-Se32383**	**S20-Se32384**	**S20-Se32385**	**S20-Se32386**
Date Sampled			**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**	**Aug 30, 2020**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.005	< 0.01	< 0.005
Cadmium	0.005	mg/L	< 0.005	< 0.0005	< 0.005	< 0.0005
Chromium	0.05	mg/L	< 0.05	0.02	< 0.05	0.34
Copper	0.05	mg/L	< 0.05	< 0.01	< 0.05	0.04
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.001	mg/L	< 0.001	< 0.0001	< 0.001	< 0.0001

Client Sample ID			JBSED-01	JBSED-01	JB41 0.1-0.2	JB41 0.1-0.2
Sample Matrix			US Leachate	AUS Leachate - Reagent Water	US Leachate	AUS Leachate - Reagent Water
Eurofins Sample No.			S20-Se32383	S20-Se32384	S20-Se32385	S20-Se32386
Date Sampled			Aug 30, 2020	Aug 30, 2020	Aug 30, 2020	Aug 30, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	0.01	mg/L	< 0.01	< 0.01	0.06	0.23
Zinc	0.05	mg/L	0.54	0.06	< 0.05	0.06
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	-	1.0	-
pH (initial)	0.1	pH Units	6.5	-	8.6	-
pH (off)	0.1	pH Units	5.1	-	5.2	-
pH (USA HCl addition)	0.1	pH Units	1.7	-	1.7	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	-	4.0	-	4.0
pH (initial)	0.1	pH Units	-	6.5	-	9.1
pH (Leachate fluid)	0.1	pH Units	-	6.1	-	6.1
pH (off)	0.1	pH Units	-	6.3	-	8.5

Client Sample ID			JB83 0.1-0.2
Sample Matrix			US Leachate
Eurofins Sample No.			S20-Se32387
Date Sampled			Aug 30, 2020
Test/Reference	LOR	Unit	
USA Leaching Procedure			
Leachate Fluid[C01]		comment	1.0
pH (initial)	0.1	pH Units	8.9
pH (off)	0.1	pH Units	5.8
pH (USA HCl addition)	0.1	pH Units	1.7
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene	0.001	mg/L	< 0.001

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Sep 21, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Sep 18, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Sep 18, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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Project ID: 58238

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Phone: 02 8245 0300
Fax:

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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Sydney Laboratory - NATA Site # 18217						X	X	X	X
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Perth Laboratory - NATA Site # 23736									
Newcastle Laboratory									
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No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
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2	JB24 2-2.1	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32380		X		X
3	JB84 1.4-1.5	Aug 30, 2020		US Leachate	S20-Se32381			X	X
4	JB84 1.4-1.5	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32382		X		X
5	JBSED-01	Aug 30, 2020		US Leachate	S20-Se32383			X	X
6	JBSED-01	Aug 30, 2020		AUS Leachate - Reagent	S20-Se32384		X		X

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Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
				Water					
7	JB41 0.1-0.2	Aug 30, 2020		US Leachate	S20-Se32385			X	X
8	JB41 0.1-0.2	Aug 30, 2020		AUS Leachate - Reagent Water	S20-Se32386		X		X
9	JB83 0.1-0.2	Aug 30, 2020		US Leachate	S20-Se32387	X		X	
Test Counts						1	4	5	8

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	113			80-120	Pass	
Cadmium	%	110			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	100			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	112			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	94			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se32384	CP	%	100			75-125	Pass	
Cadmium	S20-Se32384	CP	%	100			75-125	Pass	
Chromium	S20-Se32384	CP	%	102			75-125	Pass	
Copper	S20-Se32384	CP	%	102			75-125	Pass	
Lead	S20-Se32384	CP	%	105			75-125	Pass	
Mercury	S20-Se32384	CP	%	114			75-125	Pass	
Nickel	S20-Se32384	CP	%	101			75-125	Pass	
Zinc	S20-Se32384	CP	%	100			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(a)pyrene	S20-Se30461	NCP	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se32379	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S20-Se32379	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S20-Se32379	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S20-Se32379	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S20-Se32379	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S20-Se32379	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S20-Se32379	CP	mg/L	0.03	0.03	2.0	30%	Pass	
Zinc	S20-Se32379	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se32380	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S20-Se32380	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S20-Se32380	CP	mg/L	0.04	0.04	6.0	30%	Pass	
Copper	S20-Se32380	CP	mg/L	0.04	0.04	6.0	30%	Pass	
Lead	S20-Se32380	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S20-Se32380	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se32380	CP	mg/L	0.31	0.30	5.0	30%	Pass	
Zinc	S20-Se32380	CP	mg/L	0.08	0.07	10	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S20-Se29987	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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019830

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.: 745190
PROJECT NAME: PLE	SAMPLERS: CR
DATE NEEDED BY: Same day	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH/BTEXN	VOC	SVOC	JBSA	JBD	Alkalinity	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW04	H2O	18.9.20		2x vial + 1x Amb 1xJ + B + P (Pair)		X	X	X						X	
JBSED-10	Soil								X					X	
DR-1	↓										X			X	
DR-2											X			X	
DR-3											X			X	
RINS018				1x Amb, 2x vial, 1x P						X					
TS/TB				4 x vial								X			
1															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 18.9.20	CONSIGNMENT NOTE NO.	NAME: Jasmine Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/9/2020 5:53PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	PLE
Project ID:	58238
Turnaround time:	Overnight
Date/Time received	Sep 18, 2020 5:53 PM
Eurofins reference	745190

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 13.7 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	745190-AID
Project Name	PLE
Project ID	58238
Received Date	Sep 18, 2020
Date Reported	Sep 21, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PLE
Project ID 58238
Date Sampled Sep 18, 2020
Report 745190-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JBSED-10	20-Se33589	Sep 18, 2020	Approximate Sample 439g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
DR-1	20-Se33590	Sep 18, 2020	Approximate Sample 742g Sample consisted of: Brown fine-grained soil, glass, plaster, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DR-2	20-Se33591	Sep 18, 2020	Approximate Sample 1008g Sample consisted of: Brown fine-grained sandy soil, plaster, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DR-3	20-Se33592	Sep 18, 2020	Approximate Sample 490g Sample consisted of: Brown fine-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 18, 2020	Indefinite

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se33589 & S20-Se33592: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745190-S**
Project name PLE
Project ID 58238
Received Date Sep 18, 2020

Client Sample ID			**JBSED-10**
Sample Matrix			**Soil**
Eurofins Sample No.			**S20-Se33589**
Date Sampled			**Sep 18, 2020**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	96
TRH C15-C28	50	mg/kg	240
TRH C29-C36	50	mg/kg	190
TRH C10-C36 (Total)	50	mg/kg	526
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	81
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	81
TRH >C16-C34	100	mg/kg	360
TRH >C34-C40	100	mg/kg	120
TRH >C10-C40 (total)*	100	mg/kg	561
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5

Client Sample ID			JBSED-10
Sample Matrix			Soil
Eurofins Sample No.			S20-Se33589
Date Sampled			Sep 18, 2020
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	102
p-Terphenyl-d14 (surr.)	1	%	106
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	1	mg/kg	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2
Dibutylchlorendate (surr.)	1	%	127
Tetrachloro-m-xylene (surr.)	1	%	96
Polychlorinated Biphenyls			
Aroclor-1016	0.5	mg/kg	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5
Total PCB*	0.5	mg/kg	< 0.5
Dibutylchlorendate (surr.)	1	%	127
Tetrachloro-m-xylene (surr.)	1	%	96

Client Sample ID			JBSED-10
Sample Matrix			**Soil**
Eurofins Sample No.			**S20-Se33589**
Date Sampled			**Sep 18, 2020**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	4.5
Cadmium	0.4	mg/kg	0.5
Chromium	5	mg/kg	68
Copper	5	mg/kg	68
Lead	5	mg/kg	110
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	36
Zinc	5	mg/kg	730
% Moisture	1	%	46

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 18, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 18, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Sep 18, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	93			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	100			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	70			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	85			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	101			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	112			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	89			70-130	Pass	
Dibenz(a.h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	95			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	99			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	82			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	98			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	97			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	90			70-130	Pass	
Dieldrin	%	84			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	99			70-130	Pass	
Endosulfan sulphate	%	76			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	72			70-130	Pass	
Endrin ketone	%	77			70-130	Pass	
g-BHC (Lindane)	%	105			70-130	Pass	
Heptachlor	%	93			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	114			70-130	Pass	
Aroclor-1260	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	108			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se24513	NCP	%	82			70-130	Pass	
TRH C10-C14	S20-Se30890	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S20-Se24513	NCP	%	89			70-130	Pass	
Toluene	S20-Se24513	NCP	%	91			70-130	Pass	
Ethylbenzene	S20-Se24513	NCP	%	93			70-130	Pass	
m&p-Xylenes	S20-Se24513	NCP	%	95			70-130	Pass	
o-Xylene	S20-Se24513	NCP	%	95			70-130	Pass	
Xylenes - Total*	S20-Se24513	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se24513	NCP	%	100			70-130	Pass	
TRH C6-C10	S20-Se24513	NCP	%	82			70-130	Pass	
TRH >C10-C16	S20-Se30890	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se23502	NCP	%	90			70-130	Pass	
Acenaphthylene	S20-Se23502	NCP	%	88			70-130	Pass	
Anthracene	S20-Se23502	NCP	%	91			70-130	Pass	
Benz(a)anthracene	S20-Se23502	NCP	%	92			70-130	Pass	
Benzo(a)pyrene	S20-Se23502	NCP	%	84			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se23502	NCP	%	85			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se23502	NCP	%	70			70-130	Pass	
Benzo(k)fluoranthene	S20-Se23502	NCP	%	82			70-130	Pass	
Chrysene	S20-Se23502	NCP	%	82			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se23502	NCP	%	76			70-130	Pass	
Fluoranthene	S20-Se23502	NCP	%	91			70-130	Pass	
Fluorene	S20-Se23502	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se23502	NCP	%	72			70-130	Pass	
Naphthalene	S20-Se23502	NCP	%	86			70-130	Pass	
Phenanthrene	S20-Se23502	NCP	%	77			70-130	Pass	
Pyrene	S20-Se23502	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se23502	NCP	%	92			70-130	Pass	
4.4'-DDD	S20-Se23502	NCP	%	93			70-130	Pass	
4.4'-DDE	S20-Se23502	NCP	%	90			70-130	Pass	
4.4'-DDT	S20-Se23502	NCP	%	77			70-130	Pass	
a-BHC	S20-Se23502	NCP	%	93			70-130	Pass	
Aldrin	S20-Se23502	NCP	%	101			70-130	Pass	
b-BHC	S20-Se23502	NCP	%	91			70-130	Pass	
d-BHC	S20-Se23502	NCP	%	81			70-130	Pass	
Dieldrin	S20-Se23502	NCP	%	86			70-130	Pass	
Endosulfan I	S20-Se23502	NCP	%	98			70-130	Pass	
Endosulfan II	S20-Se23502	NCP	%	91			70-130	Pass	
Endrin	S20-Se23502	NCP	%	103			70-130	Pass	
Endrin aldehyde	S20-Se23502	NCP	%	71			70-130	Pass	
Endrin ketone	S20-Se23502	NCP	%	79			70-130	Pass	
g-BHC (Lindane)	S20-Se23502	NCP	%	94			70-130	Pass	
Heptachlor	S20-Se23502	NCP	%	90			70-130	Pass	
Heptachlor epoxide	S20-Se23502	NCP	%	82			70-130	Pass	
Hexachlorobenzene	S20-Se23502	NCP	%	90			70-130	Pass	
Methoxychlor	S20-Se23502	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se30829	NCP	%	115			75-125	Pass	
Cadmium	S20-Se30829	NCP	%	115			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S20-Se30829	NCP	%	117			75-125	Pass	
Copper	S20-Se30829	NCP	%	117			75-125	Pass	
Lead	S20-Se26934	NCP	%	87			75-125	Pass	
Mercury	S20-Se30829	NCP	%	125			75-125	Pass	
Nickel	S20-Se30829	NCP	%	117			75-125	Pass	
Zinc	S20-Se24294	NCP	%	112			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se33045	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Se33036	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se33036	NCP	mg/kg	160	220	27	30%	Pass	
TRH C29-C36	S20-Se33036	NCP	mg/kg	110	160	42	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se33045	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se33045	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se33045	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se33045	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Se33036	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C34-C40	S20-Se33036	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se23500	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se23500	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se20511	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se30838	NCP	mg/kg	6.0	6.8	13	30%	Pass	
Cadmium	S20-Se30838	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se30838	NCP	mg/kg	19	20	8.0	30%	Pass	
Copper	S20-Se30838	NCP	mg/kg	28	28	1.0	30%	Pass	
Lead	S20-Se30838	NCP	mg/kg	97	84	14	30%	Pass	
Mercury	S20-Se30838	NCP	mg/kg	0.1	0.1	4.0	30%	Pass	
Nickel	S20-Se30838	NCP	mg/kg	18	20	12	30%	Pass	
Zinc	S20-Se30838	NCP	mg/kg	180	130	33	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se33589	CP	%	46	47	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745190-W**
Project name PLE
Project ID 58238
Received Date Sep 18, 2020

Client Sample ID			**MW04**	**RIN0918**	**TS**	**TB**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se33588**	**S20-Se33593**	**S20-Se33594**	**S20-Se33595**
Date Sampled			**Sep 18, 2020**	**Sep 18, 2020**	**Sep 18, 2020**	**Sep 18, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C29-C36	0.1	mg/L	0.1	< 0.1	-	-
TRH C10-C36 (Total)	0.1	mg/L	0.1	< 0.1	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	99	101	-	93
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.001	mg/L	0.007	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	0.021	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Toluene-d8 (surr.)	1	%	89	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	0.2	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	0.3	< 0.1	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	< 0.001	-	-
Acenaphthylene	0.001	mg/L	-	< 0.001	-	-
Anthracene	0.001	mg/L	-	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-	-
Chrysene	0.001	mg/L	-	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	-	-
Fluoranthene	0.001	mg/L	-	< 0.001	-	-
Fluorene	0.001	mg/L	-	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-	-
Naphthalene	0.001	mg/L	-	< 0.001	-	-
Phenanthrene	0.001	mg/L	-	< 0.001	-	-
Pyrene	0.001	mg/L	-	< 0.001	-	-
Total PAH*	0.001	mg/L	-	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	-	96	-	-
p-Terphenyl-d14 (surr.)	1	%	-	108	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.001	mg/L	-	< 0.001	-	-
4.4'-DDD	0.0001	mg/L	-	< 0.0001	-	-
4.4'-DDE	0.0001	mg/L	-	< 0.0001	-	-
4.4'-DDT	0.0001	mg/L	-	< 0.0001	-	-
a-BHC	0.0001	mg/L	-	< 0.0001	-	-
Aldrin	0.0001	mg/L	-	< 0.0001	-	-
b-BHC	0.0001	mg/L	-	< 0.0001	-	-
d-BHC	0.0001	mg/L	-	< 0.0001	-	-
Dieldrin	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan I	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan II	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan sulphate	0.0001	mg/L	-	< 0.0001	-	-
Endrin	0.0001	mg/L	-	< 0.0001	-	-
Endrin aldehyde	0.0001	mg/L	-	< 0.0001	-	-
Endrin ketone	0.0001	mg/L	-	< 0.0001	-	-
g-BHC (Lindane)	0.0001	mg/L	-	< 0.0001	-	-
Heptachlor	0.0001	mg/L	-	< 0.0001	-	-
Heptachlor epoxide	0.0001	mg/L	-	< 0.0001	-	-
Hexachlorobenzene	0.0001	mg/L	-	< 0.0001	-	-
Methoxychlor	0.0001	mg/L	-	< 0.0001	-	-
Toxaphene	0.01	mg/L	-	< 0.01	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	-	< 0.0001	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	-	< 0.0001	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	-	< 0.001	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	-	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	-	91	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	< 0.005	-	-
Aroclor-1221	0.001	mg/L	-	< 0.001	-	-
Aroclor-1232	0.005	mg/L	-	< 0.005	-	-
Aroclor-1242	0.005	mg/L	-	< 0.005	-	-
Aroclor-1248	0.005	mg/L	-	< 0.005	-	-
Aroclor-1254	0.005	mg/L	-	< 0.005	-	-
Aroclor-1260	0.005	mg/L	-	< 0.005	-	-
Total PCB*	0.001	mg/L	-	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	-	91	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-
Heavy Metals						
Arsenic	0.001	mg/L	-	< 0.001	-	-
Cadmium	0.0002	mg/L	-	< 0.0002	-	-
Chromium	0.001	mg/L	-	0.001	-	-
Copper	0.001	mg/L	-	0.001	-	-
Lead	0.001	mg/L	-	< 0.001	-	-
Mercury	0.0001	mg/L	-	< 0.0001	-	-
Nickel	0.001	mg/L	-	0.001	-	-
Zinc	0.005	mg/L	-	0.006	-	-
BTEX						
Benzene	1	%	-	-	92	-
Ethylbenzene	1	%	-	-	94	-
m&p-Xylenes	1	%	-	-	91	-
o-Xylene	1	%	-	-	88	-
Toluene	1	%	-	-	92	-
Xylenes - Total	1	%	-	-	89	-
4-Bromofluorobenzene (surr.)	1	%	-	-	92	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 18, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

eurofins | Environment Testing

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.001			0.001	Pass	
4.4'-DDD	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDE	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDT	mg/L	< 0.0001			0.0001	Pass	
a-BHC	mg/L	< 0.0001			0.0001	Pass	
Aldrin	mg/L	< 0.0001			0.0001	Pass	
b-BHC	mg/L	< 0.0001			0.0001	Pass	
d-BHC	mg/L	< 0.0001			0.0001	Pass	
Dieldrin	mg/L	< 0.0001			0.0001	Pass	
Endosulfan I	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/L	< 0.0001			0.0001	Pass	
Endosulfan sulphate	mg/L	< 0.0001			0.0001	Pass	
Endrin	mg/L	< 0.0001			0.0001	Pass	
Endrin aldehyde	mg/L	< 0.0001			0.0001	Pass	
Endrin ketone	mg/L	< 0.0001			0.0001	Pass	
g-BHC (Lindane)	mg/L	< 0.0001			0.0001	Pass	
Heptachlor	mg/L	< 0.0001			0.0001	Pass	
Heptachlor epoxide	mg/L	< 0.0001			0.0001	Pass	
Hexachlorobenzene	mg/L	< 0.0001			0.0001	Pass	
Methoxychlor	mg/L	< 0.0001			0.0001	Pass	
Toxaphene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.001			0.001	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	90			70-130	Pass	
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	83			70-130	Pass	
Toluene	%	81			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	79			70-130	Pass	
o-Xylene	%	77			70-130	Pass	
Xylenes - Total*	%	79			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	110			70-130	Pass	
1.1.1-Trichloroethane	%	106			70-130	Pass	
1.2-Dichlorobenzene	%	99			70-130	Pass	
1.2-Dichloroethane	%	113			70-130	Pass	
Benzene	%	113			70-130	Pass	
Ethylbenzene	%	114			70-130	Pass	
m&p-Xylenes	%	116			70-130	Pass	
o-Xylene	%	116			70-130	Pass	
Toluene	%	116			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	%	103			70-130	Pass	
Xylenes - Total*	%	116			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	101			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	89			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	122			70-130	Pass	
Acenaphthylene	%	119			70-130	Pass	
Anthracene	%	120			70-130	Pass	
Benz(a)anthracene	%	121			70-130	Pass	
Benzo(a)pyrene	%	126			70-130	Pass	
Benzo(b&j)fluoranthene	%	128			70-130	Pass	
Benzo(g.h.i)perylene	%	122			70-130	Pass	
Benzo(k)fluoranthene	%	130			70-130	Pass	
Chrysene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	130			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	113			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	125			70-130	Pass	
Pyrene	%	128			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	82			70-130	Pass	
4.4'-DDD	%	108			70-130	Pass	
4.4'-DDE	%	82			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-BHC	%	71			70-130	Pass	
Aldrin	%	77			70-130	Pass	
b-BHC	%	72			70-130	Pass	
d-BHC	%	84			70-130	Pass	
Dieldrin	%	80			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	77			70-130	Pass	
Endosulfan sulphate	%	73			70-130	Pass	
Endrin	%	74			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	78			70-130	Pass	
Heptachlor epoxide	%	87			70-130	Pass	
Hexachlorobenzene	%	70			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	79			70-130	Pass	
Aroclor-1260	%	107			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	96			80-120	Pass	
Cadmium	%	100			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium			%	107			80-120	Pass	
Copper			%	109			80-120	Pass	
Lead			%	107			80-120	Pass	
Mercury			%	111			80-120	Pass	
Nickel			%	109			80-120	Pass	
Zinc			%	102			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se16765	NCP	%	84			70-130	Pass	
TRH C10-C14	S20-Se15841	NCP	%	90			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se16765	NCP	%	93			70-130	Pass	
Toluene	S20-Se16765	NCP	%	98			70-130	Pass	
Ethylbenzene	S20-Se16765	NCP	%	97			70-130	Pass	
m&p-Xylenes	S20-Se16765	NCP	%	97			70-130	Pass	
o-Xylene	S20-Se16765	NCP	%	96			70-130	Pass	
Xylenes - Total*	S20-Se16765	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S20-Se17603	NCP	%	105			70-130	Pass	
1.1.1-Trichloroethane	S20-Se17603	NCP	%	99			70-130	Pass	
1.2-Dichlorobenzene	S20-Se17603	NCP	%	93			70-130	Pass	
1.2-Dichloroethane	S20-Se17603	NCP	%	105			70-130	Pass	
Trichloroethene	S20-Se17603	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se16765	NCP	%	124			70-130	Pass	
TRH C6-C10	S20-Se16765	NCP	%	83			70-130	Pass	
TRH >C10-C16	S20-Se15841	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se33593	CP	%	101			75-125	Pass	
Cadmium	S20-Se33593	CP	%	104			75-125	Pass	
Chromium	S20-Se33593	CP	%	108			75-125	Pass	
Copper	S20-Se33593	CP	%	107			75-125	Pass	
Lead	S20-Se33593	CP	%	111			75-125	Pass	
Mercury	S20-Se33593	CP	%	110			75-125	Pass	
Nickel	S20-Se33593	CP	%	105			75-125	Pass	
Zinc	S20-Se33593	CP	%	108			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se16447	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S20-Se15839	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Se15839	NCP	mg/L	0.6	0.6	3.0	30%	Pass	
TRH C29-C36	S20-Se15839	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Se16447	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-Se16447	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon disulfide	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroform	S20-Se17606	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Se17606	NCP	mg/L	0.044	0.043	3.0	30%	Pass	
cis-1.3-Dichloropropene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S20-Se17606	NCP	mg/L	0.10	0.098	3.0	30%	Pass	
Trichlorofluoromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Vinyl chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se16447	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-Se16447	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S20-Se15839	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-Se15839	NCP	mg/L	0.4	0.4	16	30%	Pass	
TRH >C34-C40	S20-Se15839	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se33593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S20-Se33593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S20-Se33593	CP	mg/L	0.002	0.002	3.0	30%	Pass	
Copper	S20-Se33593	CP	mg/L	0.001	0.001	<1	30%	Pass	
Lead	S20-Se33593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S20-Se33593	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se33593	CP	mg/L	0.002	0.002	1.0	30%	Pass	
Zinc	S20-Se33593	CP	mg/L	0.006	0.006	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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019830

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58238	LABORATORY BATCH NO.: 745190
PROJECT NAME: PLE	SAMPLERS: CR
DATE NEEDED BY: Same day	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ckaufman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH/BTEXN	VOC	SVOC	JBSA	JBD	Alkalinity	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW04	H2O	18.9.20		2x vial + 1x Amb 1xJ + B + P (Pair)		X	X	X						X	
JBSED-10	Soil								X					X	
DR-1	↓										X			X	
DR-2											X			X	
DR-3											X			X	
RINS018				1x Amb, 2x vial, 1x P						X					
TS/TB				4 x vial								X			
1															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 18.9.20	CONSIGNMENT NOTE NO.	NAME: Jasmine Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/9/2020 5:53PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

eurofins | Environment Testing

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	745190-AID
Project Name	PLE
Project ID	58238
Received Date	Sep 18, 2020
Date Reported	Sep 21, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PLE
Project ID 58238
Date Sampled Sep 18, 2020
Report 745190-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JBSED-10	20-Se33589	Sep 18, 2020	Approximate Sample 439g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
DR-1	20-Se33590	Sep 18, 2020	Approximate Sample 742g Sample consisted of: Brown fine-grained soil, glass, plaster, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DR-2	20-Se33591	Sep 18, 2020	Approximate Sample 1008g Sample consisted of: Brown fine-grained sandy soil, plaster, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DR-3	20-Se33592	Sep 18, 2020	Approximate Sample 490g Sample consisted of: Brown fine-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 18, 2020	Indefinite

eurofins | Environment Testing

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-Se33589 & S20-Se33592: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745190-S**
Project name PLE
Project ID 58238
Received Date Sep 18, 2020

Client Sample ID			**JBSED-10**
Sample Matrix			**Soil**
Eurofins Sample No.			**S20-Se33589**
Date Sampled			**Sep 18, 2020**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	96
TRH C15-C28	50	mg/kg	240
TRH C29-C36	50	mg/kg	190
TRH C10-C36 (Total)	50	mg/kg	526
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	81
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	81
TRH >C16-C34	100	mg/kg	360
TRH >C34-C40	100	mg/kg	120
TRH >C10-C40 (total)*	100	mg/kg	561
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5

Client Sample ID			JBSED-10
Sample Matrix			Soil
Eurofins Sample No.			S20-Se33589
Date Sampled			Sep 18, 2020
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	102
p-Terphenyl-d14 (surr.)	1	%	106
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	1	mg/kg	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2
Dibutylchlorendate (surr.)	1	%	127
Tetrachloro-m-xylene (surr.)	1	%	96
Polychlorinated Biphenyls			
Aroclor-1016	0.5	mg/kg	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5
Total PCB*	0.5	mg/kg	< 0.5
Dibutylchlorendate (surr.)	1	%	127
Tetrachloro-m-xylene (surr.)	1	%	96

Client Sample ID			JBSED-10
Sample Matrix			**Soil**
Eurofins Sample No.			**S20-Se33589**
Date Sampled			**Sep 18, 2020**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	4.5
Cadmium	0.4	mg/kg	0.5
Chromium	5	mg/kg	68
Copper	5	mg/kg	68
Lead	5	mg/kg	110
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	36
Zinc	5	mg/kg	730
% Moisture	1	%	46

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 18, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 18, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Sep 18, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	93			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	100			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	70			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	85			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	101			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	112			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	89			70-130	Pass	
Dibenz(a.h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	95			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	99			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	82			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	98			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	97			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	90			70-130	Pass	
Dieldrin	%	84			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	99			70-130	Pass	
Endosulfan sulphate	%	76			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	72			70-130	Pass	
Endrin ketone	%	77			70-130	Pass	
g-BHC (Lindane)	%	105			70-130	Pass	
Heptachlor	%	93			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	114			70-130	Pass	
Aroclor-1260	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	108			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se24513	NCP	%	82			70-130	Pass	
TRH C10-C14	S20-Se30890	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	S20-Se24513	NCP	%	89			70-130	Pass	
Toluene	S20-Se24513	NCP	%	91			70-130	Pass	
Ethylbenzene	S20-Se24513	NCP	%	93			70-130	Pass	
m&p-Xylenes	S20-Se24513	NCP	%	95			70-130	Pass	
o-Xylene	S20-Se24513	NCP	%	95			70-130	Pass	
Xylenes - Total*	S20-Se24513	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se24513	NCP	%	100			70-130	Pass	
TRH C6-C10	S20-Se24513	NCP	%	82			70-130	Pass	
TRH >C10-C16	S20-Se30890	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Se23502	NCP	%	90			70-130	Pass	
Acenaphthylene	S20-Se23502	NCP	%	88			70-130	Pass	
Anthracene	S20-Se23502	NCP	%	91			70-130	Pass	
Benz(a)anthracene	S20-Se23502	NCP	%	92			70-130	Pass	
Benzo(a)pyrene	S20-Se23502	NCP	%	84			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Se23502	NCP	%	85			70-130	Pass	
Benzo(g.h.i)perylene	S20-Se23502	NCP	%	70			70-130	Pass	
Benzo(k)fluoranthene	S20-Se23502	NCP	%	82			70-130	Pass	
Chrysene	S20-Se23502	NCP	%	82			70-130	Pass	
Dibenz(a.h)anthracene	S20-Se23502	NCP	%	76			70-130	Pass	
Fluoranthene	S20-Se23502	NCP	%	91			70-130	Pass	
Fluorene	S20-Se23502	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se23502	NCP	%	72			70-130	Pass	
Naphthalene	S20-Se23502	NCP	%	86			70-130	Pass	
Phenanthrene	S20-Se23502	NCP	%	77			70-130	Pass	
Pyrene	S20-Se23502	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Se23502	NCP	%	92			70-130	Pass	
4.4'-DDD	S20-Se23502	NCP	%	93			70-130	Pass	
4.4'-DDE	S20-Se23502	NCP	%	90			70-130	Pass	
4.4'-DDT	S20-Se23502	NCP	%	77			70-130	Pass	
a-BHC	S20-Se23502	NCP	%	93			70-130	Pass	
Aldrin	S20-Se23502	NCP	%	101			70-130	Pass	
b-BHC	S20-Se23502	NCP	%	91			70-130	Pass	
d-BHC	S20-Se23502	NCP	%	81			70-130	Pass	
Dieldrin	S20-Se23502	NCP	%	86			70-130	Pass	
Endosulfan I	S20-Se23502	NCP	%	98			70-130	Pass	
Endosulfan II	S20-Se23502	NCP	%	91			70-130	Pass	
Endrin	S20-Se23502	NCP	%	103			70-130	Pass	
Endrin aldehyde	S20-Se23502	NCP	%	71			70-130	Pass	
Endrin ketone	S20-Se23502	NCP	%	79			70-130	Pass	
g-BHC (Lindane)	S20-Se23502	NCP	%	94			70-130	Pass	
Heptachlor	S20-Se23502	NCP	%	90			70-130	Pass	
Heptachlor epoxide	S20-Se23502	NCP	%	82			70-130	Pass	
Hexachlorobenzene	S20-Se23502	NCP	%	90			70-130	Pass	
Methoxychlor	S20-Se23502	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se30829	NCP	%	115			75-125	Pass	
Cadmium	S20-Se30829	NCP	%	115			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S20-Se30829	NCP	%	117			75-125	Pass	
Copper	S20-Se30829	NCP	%	117			75-125	Pass	
Lead	S20-Se26934	NCP	%	87			75-125	Pass	
Mercury	S20-Se30829	NCP	%	125			75-125	Pass	
Nickel	S20-Se30829	NCP	%	117			75-125	Pass	
Zinc	S20-Se24294	NCP	%	112			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se33045	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Se33036	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Se33036	NCP	mg/kg	160	220	27	30%	Pass	
TRH C29-C36	S20-Se33036	NCP	mg/kg	110	160	42	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Se33045	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Se33045	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-Se33045	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se33045	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Se33045	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Se33036	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C34-C40	S20-Se33036	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Se23500	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Se23500	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-BHC	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Se23500	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Se23500	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Se20511	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Se20511	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se30838	NCP	mg/kg	6.0	6.8	13	30%	Pass	
Cadmium	S20-Se30838	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Se30838	NCP	mg/kg	19	20	8.0	30%	Pass	
Copper	S20-Se30838	NCP	mg/kg	28	28	1.0	30%	Pass	
Lead	S20-Se30838	NCP	mg/kg	97	84	14	30%	Pass	
Mercury	S20-Se30838	NCP	mg/kg	0.1	0.1	4.0	30%	Pass	
Nickel	S20-Se30838	NCP	mg/kg	18	20	12	30%	Pass	
Zinc	S20-Se30838	NCP	mg/kg	180	130	33	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Se33589	CP	%	46	47	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **745190-W**
Project name PLE
Project ID 58238
Received Date Sep 18, 2020

Client Sample ID			**MW04**	**RIN0918**	**TS**	**TB**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Se33588**	**S20-Se33593**	**S20-Se33594**	**S20-Se33595**
Date Sampled			**Sep 18, 2020**	**Sep 18, 2020**	**Sep 18, 2020**	**Sep 18, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C29-C36	0.1	mg/L	0.1	< 0.1	-	-
TRH C10-C36 (Total)	0.1	mg/L	0.1	< 0.1	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	99	101	-	93
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.001	mg/L	0.007	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	0.021	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Toluene-d8 (surr.)	1	%	89	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	0.2	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	0.3	< 0.1	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	< 0.001	-	-
Acenaphthylene	0.001	mg/L	-	< 0.001	-	-
Anthracene	0.001	mg/L	-	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-	-
Chrysene	0.001	mg/L	-	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	-	-
Fluoranthene	0.001	mg/L	-	< 0.001	-	-
Fluorene	0.001	mg/L	-	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-	-
Naphthalene	0.001	mg/L	-	< 0.001	-	-
Phenanthrene	0.001	mg/L	-	< 0.001	-	-
Pyrene	0.001	mg/L	-	< 0.001	-	-
Total PAH*	0.001	mg/L	-	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	-	96	-	-
p-Terphenyl-d14 (surr.)	1	%	-	108	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.001	mg/L	-	< 0.001	-	-
4.4'-DDD	0.0001	mg/L	-	< 0.0001	-	-
4.4'-DDE	0.0001	mg/L	-	< 0.0001	-	-
4.4'-DDT	0.0001	mg/L	-	< 0.0001	-	-
a-BHC	0.0001	mg/L	-	< 0.0001	-	-
Aldrin	0.0001	mg/L	-	< 0.0001	-	-
b-BHC	0.0001	mg/L	-	< 0.0001	-	-
d-BHC	0.0001	mg/L	-	< 0.0001	-	-
Dieldrin	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan I	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan II	0.0001	mg/L	-	< 0.0001	-	-
Endosulfan sulphate	0.0001	mg/L	-	< 0.0001	-	-
Endrin	0.0001	mg/L	-	< 0.0001	-	-
Endrin aldehyde	0.0001	mg/L	-	< 0.0001	-	-
Endrin ketone	0.0001	mg/L	-	< 0.0001	-	-
g-BHC (Lindane)	0.0001	mg/L	-	< 0.0001	-	-
Heptachlor	0.0001	mg/L	-	< 0.0001	-	-
Heptachlor epoxide	0.0001	mg/L	-	< 0.0001	-	-
Hexachlorobenzene	0.0001	mg/L	-	< 0.0001	-	-
Methoxychlor	0.0001	mg/L	-	< 0.0001	-	-
Toxaphene	0.01	mg/L	-	< 0.01	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	-	< 0.0001	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	-	< 0.0001	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	-	< 0.001	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	-	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	-	91	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-

Client Sample ID			MW04	RIN0918	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Se33588	S20-Se33593	S20-Se33594	S20-Se33595
Date Sampled			Sep 18, 2020	Sep 18, 2020	Sep 18, 2020	Sep 18, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	< 0.005	-	-
Aroclor-1221	0.001	mg/L	-	< 0.001	-	-
Aroclor-1232	0.005	mg/L	-	< 0.005	-	-
Aroclor-1242	0.005	mg/L	-	< 0.005	-	-
Aroclor-1248	0.005	mg/L	-	< 0.005	-	-
Aroclor-1254	0.005	mg/L	-	< 0.005	-	-
Aroclor-1260	0.005	mg/L	-	< 0.005	-	-
Total PCB*	0.001	mg/L	-	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	-	91	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-
Heavy Metals						
Arsenic	0.001	mg/L	-	< 0.001	-	-
Cadmium	0.0002	mg/L	-	< 0.0002	-	-
Chromium	0.001	mg/L	-	0.001	-	-
Copper	0.001	mg/L	-	0.001	-	-
Lead	0.001	mg/L	-	< 0.001	-	-
Mercury	0.0001	mg/L	-	< 0.0001	-	-
Nickel	0.001	mg/L	-	0.001	-	-
Zinc	0.005	mg/L	-	0.006	-	-
BTEX						
Benzene	1	%	-	-	92	-
Ethylbenzene	1	%	-	-	94	-
m&p-Xylenes	1	%	-	-	91	-
o-Xylene	1	%	-	-	88	-
Toluene	1	%	-	-	92	-
Xylenes - Total	1	%	-	-	89	-
4-Bromofluorobenzene (surr.)	1	%	-	-	92	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Sep 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Sep 18, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Sep 18, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Sep 18, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			

eurofins | Environment Testing

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Address: Level 1, 50 Margaret St
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Project Name: PLE
Project ID: 58238

Order No.:
Report #: 745190
Phone: 02 8245 0300
Fax:

Received: Sep 18, 2020 5:53 PM
Due: Sep 21, 2020
Priority: Overnight
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	BTEX	Volatile Organics	Moisture Set	Eurofins Suite B1	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Newcastle Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	MW04	Sep 18, 2020		Water	S20-Se33588			X		X		
2	JBSED-10	Sep 18, 2020		Soil	S20-Se33589	X			X		X	
3	DR-1	Sep 18, 2020		Soil	S20-Se33590	X						
4	DR-2	Sep 18, 2020		Soil	S20-Se33591	X						
5	DR-3	Sep 18, 2020		Soil	S20-Se33592	X						
6	RIN0918	Sep 18, 2020		Water	S20-Se33593						X	
7	TS	Sep 18, 2020		Water	S20-Se33594							X
8	TB	Sep 18, 2020		Water	S20-Se33595		X					
Test Counts						4	1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.001			0.001	Pass	
4.4'-DDD	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDE	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDT	mg/L	< 0.0001			0.0001	Pass	
a-BHC	mg/L	< 0.0001			0.0001	Pass	
Aldrin	mg/L	< 0.0001			0.0001	Pass	
b-BHC	mg/L	< 0.0001			0.0001	Pass	
d-BHC	mg/L	< 0.0001			0.0001	Pass	
Dieldrin	mg/L	< 0.0001			0.0001	Pass	
Endosulfan I	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/L	< 0.0001			0.0001	Pass	
Endosulfan sulphate	mg/L	< 0.0001			0.0001	Pass	
Endrin	mg/L	< 0.0001			0.0001	Pass	
Endrin aldehyde	mg/L	< 0.0001			0.0001	Pass	
Endrin ketone	mg/L	< 0.0001			0.0001	Pass	
g-BHC (Lindane)	mg/L	< 0.0001			0.0001	Pass	
Heptachlor	mg/L	< 0.0001			0.0001	Pass	
Heptachlor epoxide	mg/L	< 0.0001			0.0001	Pass	
Hexachlorobenzene	mg/L	< 0.0001			0.0001	Pass	
Methoxychlor	mg/L	< 0.0001			0.0001	Pass	
Toxaphene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.001			0.001	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	90			70-130	Pass	
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	83			70-130	Pass	
Toluene	%	81			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	79			70-130	Pass	
o-Xylene	%	77			70-130	Pass	
Xylenes - Total*	%	79			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	110			70-130	Pass	
1.1.1-Trichloroethane	%	106			70-130	Pass	
1.2-Dichlorobenzene	%	99			70-130	Pass	
1.2-Dichloroethane	%	113			70-130	Pass	
Benzene	%	113			70-130	Pass	
Ethylbenzene	%	114			70-130	Pass	
m&p-Xylenes	%	116			70-130	Pass	
o-Xylene	%	116			70-130	Pass	
Toluene	%	116			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	%	103			70-130	Pass	
Xylenes - Total*	%	116			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	101			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	89			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	122			70-130	Pass	
Acenaphthylene	%	119			70-130	Pass	
Anthracene	%	120			70-130	Pass	
Benz(a)anthracene	%	121			70-130	Pass	
Benzo(a)pyrene	%	126			70-130	Pass	
Benzo(b&j)fluoranthene	%	128			70-130	Pass	
Benzo(g.h.i)perylene	%	122			70-130	Pass	
Benzo(k)fluoranthene	%	130			70-130	Pass	
Chrysene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	130			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	113			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	125			70-130	Pass	
Pyrene	%	128			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	82			70-130	Pass	
4.4'-DDD	%	108			70-130	Pass	
4.4'-DDE	%	82			70-130	Pass	
4.4'-DDT	%	70			70-130	Pass	
a-BHC	%	71			70-130	Pass	
Aldrin	%	77			70-130	Pass	
b-BHC	%	72			70-130	Pass	
d-BHC	%	84			70-130	Pass	
Dieldrin	%	80			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	77			70-130	Pass	
Endosulfan sulphate	%	73			70-130	Pass	
Endrin	%	74			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	78			70-130	Pass	
Heptachlor epoxide	%	87			70-130	Pass	
Hexachlorobenzene	%	70			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	79			70-130	Pass	
Aroclor-1260	%	107			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	96			80-120	Pass	
Cadmium	%	100			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium			%	107			80-120	Pass	
Copper			%	109			80-120	Pass	
Lead			%	107			80-120	Pass	
Mercury			%	111			80-120	Pass	
Nickel			%	109			80-120	Pass	
Zinc			%	102			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Se16765	NCP	%	84			70-130	Pass	
TRH C10-C14	S20-Se15841	NCP	%	90			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Se16765	NCP	%	93			70-130	Pass	
Toluene	S20-Se16765	NCP	%	98			70-130	Pass	
Ethylbenzene	S20-Se16765	NCP	%	97			70-130	Pass	
m&p-Xylenes	S20-Se16765	NCP	%	97			70-130	Pass	
o-Xylene	S20-Se16765	NCP	%	96			70-130	Pass	
Xylenes - Total*	S20-Se16765	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S20-Se17603	NCP	%	105			70-130	Pass	
1.1.1-Trichloroethane	S20-Se17603	NCP	%	99			70-130	Pass	
1.2-Dichlorobenzene	S20-Se17603	NCP	%	93			70-130	Pass	
1.2-Dichloroethane	S20-Se17603	NCP	%	105			70-130	Pass	
Trichloroethene	S20-Se17603	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Se16765	NCP	%	124			70-130	Pass	
TRH C6-C10	S20-Se16765	NCP	%	83			70-130	Pass	
TRH >C10-C16	S20-Se15841	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Se33593	CP	%	101			75-125	Pass	
Cadmium	S20-Se33593	CP	%	104			75-125	Pass	
Chromium	S20-Se33593	CP	%	108			75-125	Pass	
Copper	S20-Se33593	CP	%	107			75-125	Pass	
Lead	S20-Se33593	CP	%	111			75-125	Pass	
Mercury	S20-Se33593	CP	%	110			75-125	Pass	
Nickel	S20-Se33593	CP	%	105			75-125	Pass	
Zinc	S20-Se33593	CP	%	108			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Se16447	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S20-Se15839	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Se15839	NCP	mg/L	0.6	0.6	3.0	30%	Pass	
TRH C29-C36	S20-Se15839	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Se16447	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Se16447	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-Se16447	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon disulfide	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroform	S20-Se17606	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.2-Dichloroethene	S20-Se17606	NCP	mg/L	0.044	0.043	3.0	30%	Pass	
cis-1.3-Dichloropropene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	S20-Se17606	NCP	mg/L	0.10	0.098	3.0	30%	Pass	
Trichlorofluoromethane	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Vinyl chloride	S20-Se17606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Se16447	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-Se16447	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S20-Se15839	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-Se15839	NCP	mg/L	0.4	0.4	16	30%	Pass	
TRH >C34-C40	S20-Se15839	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S20-Se22148	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Se33593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S20-Se33593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S20-Se33593	CP	mg/L	0.002	0.002	3.0	30%	Pass	
Copper	S20-Se33593	CP	mg/L	0.001	0.001	<1	30%	Pass	
Lead	S20-Se33593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S20-Se33593	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-Se33593	CP	mg/L	0.002	0.002	1.0	30%	Pass	
Zinc	S20-Se33593	CP	mg/L	0.006	0.006	1.0	30%	Pass	

Appendix H Calibration and Decontamination Forms

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Appendix H Calibration and Decontamination Forms

airmet
Work with Confidence

Calibration Certificate

AirMet Scientific P/L
Level 3, 18-26 Dickson Avenue
Artarmon
NSW 2064, Australia
Tel: 02 8425 8300
Fax: 02 8425 8399

This document certifies that the instrument detailed has been calibrated to the parameters

Certificate Print Date: 8-Apr-2020
Calibration Date: 08-Apr-2020
Next Calibration Due: 5-Oct-2020

Call ID / Order No: 243006
Job No / Pack No: S2430060001

Customer: JBS&G Australia Pty Ltd-ID 202507 **Serial No:** T-111608
Description: PhoCheck Tiger Li-ion Battery Battery Charger & M

Calibration Summary

Frequency: 180 Days **Temp:** 22°C **As Found:** In Tolerance **Result:** Pass
Humidity: 45% **Certificate:** S2430060001

Desc	As Found		As Left (Cal Status)	
	Actual	Result	Actual	Result
ISOBUTYLENE 100ppm	95.2	Pass	100.0	Pass
ISOBUTYLENE 1000ppm	989.9	Pass	1000.0	Pass

Standard Used

Equip ID	Description	Valid Until	Cert
SY297	Zero Air	11-10-2024	
SY299	Isobutylene 100ppm	19-07-2024	
SY235	ISOBUTYLENE 1000PPM, AIR BALANCE	02-11-2021	BU70910-072518

Completed By: Jason Cheng **Signed:**

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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
DRAFT	Chris Kauffman	Matthew Bennett	Matthew Bennett		22/09/2020
0	Chris Kauffman	Matthew Bennett	Matthew Bennett		23/09/2020



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